Province of British Columbia

MINISTRY OF TRANSPORTATION AND HIGHWAYS

Annual Report

FOR THE FISCAL YEAR

1984/85

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Province of British Columbia

MINISTRY OF TRANSPORTATION AND HIGHWAYS

REPORT

FOR THE FISCAL YEAR

1984/85

To the Honourable Robert G. Rogers,
Lieutenant Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

Herewith I respectfully submit the Annual Report of the Ministry of Transportation and Highways for the fiscal year ended March 31, 1985 in compliance with the provisions of the Ministry of Transportation and Highways Act.

ALEX. V. FRASER
Minister of Transportation and Highways

Office of the Minister of
Transportation and Highways
Parliament Buildings, 1985

The Honourable Alex. V. Fraser,
Minister of Transportation and Highways

Victoria, B.C. 1985

The Honourable Alex. V. Fraser,
Minister of Transportation
and Highways,
Parliament Buildings,
Victoria, B.C.

Sir:

I am pleased and honoured to present the Annual Report of this Ministry for the fiscal year ended March 31, 1986.

General comments on the year's activity follow with identification of senior officials.

The main body of the report identifies the various branches and their directors with branch reports and statistics.

Respectfully submitted,
A.E. RHODES
Acting Deputy Minister

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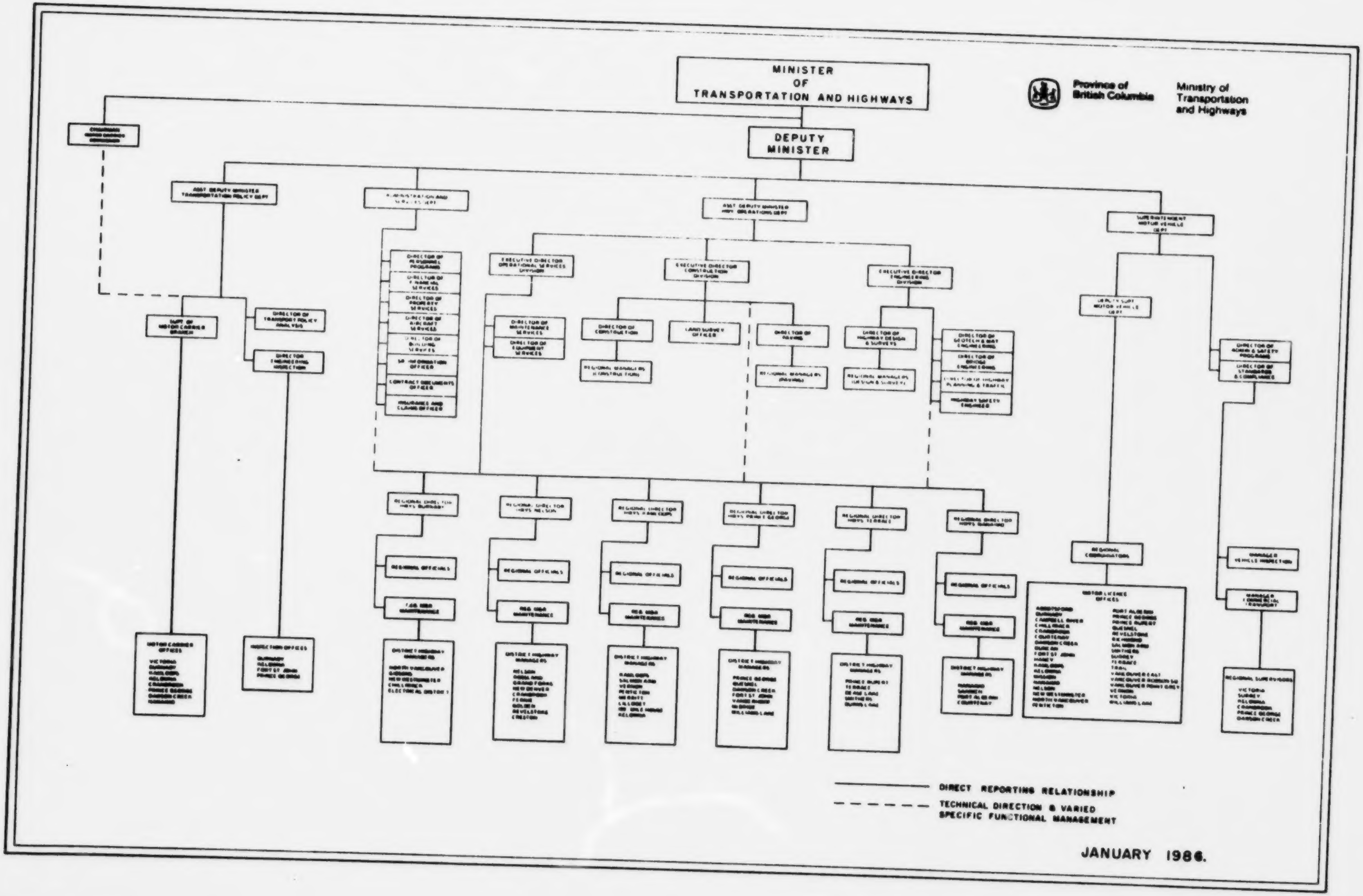
Province of British Columbia

Ministry of Transportation and Highways


MINISTER OF TRANSPORTATION AND HIGHWAYS
DEPUTY MINISTER
CHAIRMAN MOTOR CARRIER COMMISSION
ASST DEPUTY MINISTER TRANSPORTATION POLICY DEPT
SUPT OF MOTOR CARRIER BRANCH
DIRECTOR OF TRANSPORT POLICY ANALYSIS
DIRECTOR ENGINEERING INSPECTION
MOTOR CARRIER OFFICES
INSPECTION OFFICES
ADMINISTRATION AND SERVICES DEPT
DIRECTOR OF PERSONNEL PROGRAMS
DIRECTOR OF FINANCIAL SERVICES
DIRECTOR OF PROPERTY SERVICES
DIRECTOR OF AIRCRAFT SERVICES
DIRECTOR OF BUILDING SERVICES
SR INFORMATION OFFICER
CONTRACT DOCUMENTS OFFICER
INSURANCE AND CLAIMS OFFICER
ASST DEPUTY MINISTER HWY OPERATIONS DEPT
EXECUTIVE DIRECTOR OPERATIONAL SERVICES DIVISION
DIRECTOR OF MAINTENANCE SERVICES
DIRECTOR OF EQUIPMENT SERVICES
EXECUTIVE DIRECTOR CONSTRUCTION DIVISION
DIRECTOR OF CONSTRUCTION
REGIONAL MANAGERS CONSTRUCTION
LAND SURVEY OFFICER
DIRECTOR OF PAVING
REGIONAL MANAGERS PAVING
EXECUTIVE DIRECTOR ENGINEERING DIVISION
DIRECTOR OF HIGHWAY DESIGN & SURVEYS
REGIONAL MANAGERS DESIGN & SURVEYS
DIRECTOR OF GEOTECH & MAT ENGINEERING
DIRECTOR OF BRIDGE ENGINEERING
DIRECTOR OF HIGHWAY PLANNING & TRAFFIC
HIGHWAY SAFETY ENGINEER
REGIONAL DIRECTOR HWYS BURNABY
REGIONAL DIRECTOR HWYS NELSON
REGIONAL DIRECTOR HWYS KAMLOOPS
REGIONAL DIRECTOR HWYS PRINCE GEORGE
REGIONAL DIRECTOR HWYS TERRACE
REGIONAL DIRECTOR HWYS NANAIMO
REGIONAL OFFICIALS
REG HWY MAINTENANCE
DISTRICT HIGHWAY MANAGERS
SUPERINTENDENT MOTOR VEHICLE DEPT
DEPUTY SUPT MOTOR VEHICLE DEPT
REGIONAL COORDINATORS
MOTOR LICENCE OFFICES
DIRECTOR OF ADMIN & SAFETY PROGRAMS
DIRECTOR OF STANDARDS & COMPLIANCE
MANAGER VEHICLE INSPECTION
MANAGER COMMERCIAL TRANSPORT
REGIONAL SUPERVISORS
DIRECT REPORTING RELATIONSHIP
TECHNICAL DIRECTION & VARIED SPECIFIC FUNCTIONAL MANAGEMENT

JANUARY 1986.

ADMINISTRATION AND SERVICES DEPARTMENT

A.E. Rhodes, Acting Deputy Minister

While the government's continued restraint on spending did effect the level of Ministry activity the Ministry as a whole, and the administration and services branch in particular, maintained a good level of productivity and achievement.

In personnel the Ministry was given a Full Time Equivalents (F.T.E.) allotment of 6,998 in the 1984/85 fiscal year. The total number of employees on the payroll fluctuated from 6,521 to 7,450 persons including seasonal auxiliaries.

The accident frequency rate showed a decline from the previous year. The accountable rate went down from 36.1 accidents per 1,000,000 man hours in 1983/84 to 34.3 in 1984/85.

The ambulance function of the air services branch continues as its chief activity in terms of total flying hours. Of the 4,807.5 hours logged in 1984/85 air ambulance flight accounted for 55.87%, transportation 39.99% and the rest miscellaneous.

Total cost of right-of-way acquisition by the Ministry was $20,078,551.28 in 1984/85. This involved 771 claims with another 1,740 still in the process of negotiation, the major share being for the Annacis and Coquihalla projects.

Information services wrote and distributed 420 news releases, arranged 12 official "openings" of bridges, highways and airports, handled several advertising programs including a "back to school" campaign, while the office handled an average of 90 phone calls a week through the year.

The Insurance and Claims branch reports a decrease in the number accidents involving vehicles owned by (or leased to) the government from (471 in 1983/84 to 1,399 in 1984/85.

Additional statistics and information from each Administration and Services Department branch appear in the director's reports elsewhere in this volume.

HIGHWAYS OPERATIONS DEPARTMENT

T.R. Johnson, P. Eng., Assistant Deputy Minister

Engineering - M.G. Elston, P. Eng., Executive Director

Design and survey work for 1984/85 involved 191 projects representing 1,029 kilometres of two and four lane highway. The major proportion of this has been on the Coquihalla Highway, Annacis System and Highway 99 from Horseshoe Bay to Squamish.

Requests for Geotechnical and Materials Testing Branch services were again high this year with projects for Annacis and Coquihalla among the major projects. Because of the high demand, private consulting and equipment rental firms were used at times. The branch handles geotechnical highway design investigations, foundation investigations, stability investigations, aggregate investigations, pavement evaluation and design and quality control studies and testing.

The 1984/85 fiscal year was even busier than 1983/84 for the Bridge Branch as work increased on the Annacis System and bridge design and construction on the Coquihalla Highway proceeded at a rapid pace. The great increase in activity required that the Coquihalla bridges be designed by consultants and their construction supervised by bridge personnel. Because of keen competition bid prices continued to be low on bridge construction.

The Highway Planning and Traffic Branch was also heavily involved in Annacis and Coquihalla but also active in many other important projects throughout the province. The planning section undertook a number of studies ranging from the development of transportation management strategies to the evaluation of transportation corridors. Among the other projects the traffic section developed a reversible lane system for the Okanagan Lake Bridge. Subdivision activity was somewhat reduced with the number of new lots approved dropping from 5,000 in 1983 to 3,490 in 1984.

Construction - R.G. White, P. Eng., Executive Director

During the 1984/85 fiscal year, the Construction Branch administered 109 projects and the total value of the work under construction was $485,000,000. Of these projects, 31 by day labour, six by a combination of day labour and contract, and the rest by contract.

Of particular note, construction was started on Phase I of the Coquihalla Route to construct a freeway from Hope to Kamloops. Total expenditure in the 1984/85 fiscal year was expected to be about $185,000,000.

In the same period the Paving Branch administered 34 capital paving projects and four day labour projects.

Some 228 km of road (243 km of two-lane equivalent) were surfaced with asphalt pavement during the year and 389 km of surface seal (423 km of two-lane equivalent).

During the year 105 legal survey projects were carried out totalling 302 km.

Operations - P.J. Carr, P. Eng., Executive Director

The 1984/85 highway maintenance budget was $184,771,000 and there was a very slight increase in inventory. For example, the total distance of roads was up from 45,213 kilometres and the number of single lane-kilometres of pavement up from 40,666 to 40,977.

The start of 1984 was marked by heavy rains and melting snows which caused extensive flooding and slides. Total cost of restoring provincial roads in various parts of the province as a result of this and further flooding in June and October was close to $5,000,000.

No additions were made to the equipment fleet during 1984/85 and replacements were kept to a minimum as a cost saving measure. However, because of the efficiency of the equipment management system and the skill of personnel the fleet of vehicles and other equipment operated well during the year.

The Ministry's ferry fleet carried about the same volumes as those of the previous year showing a very slight decrease in the number of vehicles from 3,899,936 in 1983/84 to 3,876,937 in 1984/85 and, in passengers, an increase from 8,524,095 to 8,623,196.

TRANSPORTATION POLICY DEPARTMENT

D.A. Kasianchuk, Ph.D., Assistant Deputy Minister

The Transportation Policy Department has two primary functions:

1. encouraging the development of a balanced transportation system which makes effective use of all modes of transport; and
2. approving the design and operation of pipelines, railways and aerial tramways which fall under provincial jurisdiction.

Transportation development activities included:

- Co-ordinating a review of motor carrier regulation.
- Working with the other western provinces, the Canadian Transport Commission, Transport Canada and the railways on a number of issues, including railway access to Vancouver and railway capacity in the Fraser Canyon.
- Making representations to the Minister of Transport and the Canadian Transport Commission on air carrier license applications, plans to abandon railway lines and passenger services, and other matters.
- Administering the Air Transport Assistance Program and provision of funding to upgrade 11 community airports.
- Investigating transportation facilities required for development in the northwest region of the Province, and assessing the air navigation system throughout the Province.

The Department's approval function applies to: the BCR, the B.C. Hydro Railway and about 70 other industrial and recreational railways in the Province; about 10,000 kms of pipeline; and 230 aerial tramways. Activity included:

- A total of about 2,600 inspections of railway, pipeline, and aerial tramway facilities, including routine inspections, acceptance tests, and accident investigations.
- Monitoring of construction and operation on the BCR branchline serving the northeast coal mines.
- Monitoring of new construction, including: nine aerial tramways; a new industrial rail line; the ALRT system; relocation projects on the B.C. Hydro Railway; and 130 km of new pipeline and related facilities.

MOTOR VEHICLE DEPARTMENT

P.K. Jackman

The Motor Vehicle Department of the Ministry of Transportation and Highways operates under a mandate through legislation to register and licence vehicles, to licence drivers and to operate programs associated with these two primary functions aimed at improving the quality of road users.

The structure of the Department is designed to provide unique identification within each program but still ensure co-ordination between areas of responsibility.

The effects of the major fiscal changes introduced in 1983 which required a revamping of a number of program objectives were still evident during the 1984 fiscal period. However, the majority of the changes resulting from the decision to reduce expenditures through program modification or cancellation made at the end of the 1983 period were implemented very successfully.

The Motor Vehicle Department's organization consists of three branches and four divisions:

Administration and Safety Branch
Responsibility: general administration;
dangerous goods co-ordination;
safety programs.

Standards and Compliance Branch
Responsibility: development of vehicle safety standards and compliance programs;
operations of the Vehicle (commercial) Inspection Division;
operations of the Commercial Transport Division.

Vehicle and Driver Licence Branch
Responsibility: examination and licencing of drivers;
driver control programs;
vehicle registration and licencing programs;
revenue collection programs;
operations of the Driver Licencing Division;
operations of the Vehicle Licence Division.

The Motor Vehicle Department's programs are carried out through the headquarters operations and through 33 Departmental motor licence offices located throughout the Province in larger communities, 75 private sector agents appointed by the Superintendent of Motor Vehicles, 40 permanent weigh scale locations and 19 portable weigh scale units. Inspection of school buses and periodic checks on commercial vehicles are carried out by 21 area inspectors. One of the programs initiated in 1983 and concluded in 1984 was the combining of all field personnel in a community into one office. This is a positive step in improving customer service and in improving staff knowledge and morale.

In addition to the Department's field offices, approximately 700 Autoplan insurance agents perform vehicle licencing related functions on behalf of the Motor Vehicle Department. During 1984 a strong relationship was built with the Independent Insurance Agents Association of British Columbia which greatly enhanced the communication aspect resulting in quick resolutions to issues.

In addition to provincial activities, the Motor Vehicle Department staff were very active with counterparts from other Provinces and States, in particular on issues that have or will bring about an administrative simplicity resulting in common requirements and uniformity on a national basis.

Automation is also a major factor in establishing administrative uniformity at all levels. For example, all the Department's field offices had automated systems installed in 1984, thus service to the public and Government was improved. The automation of the Department's programs is carried out through the Ministry's Transportation Branch, Information Systems Branch, in keeping with the British Columbia Systems Corporation's mandate.

Again as in past years, success is largely due to the effort given by the dedicated employees of the Motor Vehicle Department.

SENIOR MINISTRY PERSONNEL

As at March 31, 1985

The Honourable Alex V. Fraser, Minister of Transportation and Highways

A.E. Rhodes, Acting Deputy Minister, Transportation and Highways

ADMINISTRATION AND SERVICES DEPARTMENT

A.R. Limacher, Director of Personnel Programs
S.E. Price, Director of Financial Services
P.S. Perry, Director of Air Services
A.C. Brown, Director of Property Services
D. Grey, Director of Building Services
W.S. Allen, Senior Information Officer
R.A. Fisher, Contract Documents Officer
G. Cavin, Insurance & Claims Officer

TRANSPORTATION POLICY DEPARTMENT

D.A. Kasianchuk, Ph.D., Assistant Deputy Minister
G.A. Clark, Director, Transport Policy Analysis
F.H. Christensen, P. Eng., Director, Engineering Inspection

MOTOR CARRIER COMMISSION

G.M. Morris, Chairman
E.D. Tyson, Superintendent of Motor Carriers

MOTOR VEHICLE DEPARTMENT

P.K. Jackman, Superintendent of Motor Vehicles
R.J. Isaac, Deputy Superintendent, Vehicle and Driver Licensing
P. Toogood, P. Eng., Director of Standards and Compliance
J.F. Phillips, Director, Administration and Safety Programs

HIGHWAYS OPERATIONS DEPARTMENT

T.R. Johnson, P. Eng., Assistant Deputy Minister
M.G. Elston, P. Eng., Executive Director, Engineering Division
E.E. Readshaw, P. Eng., Director of Highway Design and Surveys
J.W.G. Kerr, P. Eng., Director of Geotechnical and Materials Engineering
L.C. Johnson, P. Eng., Director of Bridge Engineering
J. Lisman, P. Eng., Highway Safety Engineer
D.R. Parkes, P. Eng., Director of Highway Planning and Traffic
R.G. White, P. Eng., Executive Director, Construction Division
N.R. Zapf, Director of Construction
O.R. Tisot, P. Eng., Director of Paving
F.A. Clapp, Lands Survey Officer
P.J. Carr, P. Eng., Executive Director, Operational Services Division
J.L.S. Buckle, P. Eng., Director of Maintenance Services
E.A. Lund, P. Eng., Director of Equipment Services

HIGHWAY FIELD OPERATIONS

Region 1

Vacant, Regional Director, Highways
T.A. Tanaka, Regional Manager, Maintenance
Vacant, Regional Manager, Construction
G. Garlinge, Regional Manager, Highways Design and Surveys
B.W.R. Eastman, P. Eng., Regional Geotechnical and Materials Engineer
Vacant, Regional Manager, Paving
W.A. Montgomery, Regional Property Negotiator
G.A. Warrington, Regional Manager, Equipment Services
R. Winbow, District Highways Manager
T.M. Forsyth, District Highways Manager
R.A. Fru, District Highways Manager
P.S. Dunn, District Highways Manager
E.A. Meads, Acting Dock Engineer
H. Gutteridge, District Electrical Manager

Vacant, Regional Director Highways
D.C. MacVicar, P. Eng., Regional Manager, Maintenance
A.W. Slater, P. Eng., Regional Manager, Construction
A.W.G. Smith, Regional Manager, Highway Design and Surveys
G.C. Stock, P. Eng., Regional Geotechnical and Materials Engineer
J.F. Meidinger, P. Eng., Regional Manager, Paving
G.A. Ward, Regional Property Negotiator

W.M. Spreul, P. Eng., Regional Director, Highways
H.J. Kelsall, P. Eng., Regional Manager, Maintenance
Vacant, Regional Manager, Construction
Vacant, Regional Manager, Highway Design and Surveys
P. Barnes, P. Eng., Regional Geotechnical and Materials Engineer
F.H. Sawatsky, Regional Manager, Paving
J. Mintak, Regional Property Negotiator
R.E. Johnson, Regional Manager, Equipment Services

L.A. Broddy, P. Eng., Regional Director, Highways
K.E. Bespflug, P. Eng., Regional Manager, Maintenance
D. Chisholm, Regional Manager, Construction
R.E. Standen, Regional Manager, Highway Design and Surveys
Vacant, Regional Geotechnical and Materials Engineer
F.E. Martens, Regional Manager, Paving
E.S. Gowman, Regional Property Negotiator

D.P. Doyle, P. Eng., Regional Director, Highways
N. Hope, P. Eng., Regional Manager, Maintenance
D.N. Moore, P. Eng., Regional Manager, Construction
D. Nyland, P. Eng., Regional Geotechnical and Materials Engineer

R.W. Gittins, P. Eng., Regional Director, Highways
A.L. Freebairn, P. Eng., Regional Manager, Maintenance
R.K. Dash, Regional Manager, Construction
B.T. Nielsen, P. Eng., Regional Manager, Paving
R.E. Burnett, Regional Property Negotiator
A.J. Montador, P. Eng., Regional Geotechnical and Materials Engineer

Region 2

J.T. Evans, Regional Manager, Equipment Services
S.J. Sviatko, District Highways Manager
J.W. Lay, District Highways Manager
W.A.G. Telford, District Highways Manager
B.D. Hunter, P. Eng., District Highways Manager
D.L. Byers, P. Eng., District Highways Manager
E.C. Redman, District Highways Manager
W.J. McDonald, District Highways Manager

Region 3

G.J. Sutherland, P. Eng., District Highways Manager
D.L. Oliver, District Highways Manager
H.L. Good, District Highways Manager
G.F. Kasakoff, District Highways Manager
H.F. Popoff, District Highways Manager
J.P. Wrobel, P. Eng., District Highways Manager
D.H. Hutton, District Highways Manager
G.E. Miller, P. Eng., District Highways Manager
L.S. Fransson, District Highways Manager

Region 4

G.A. Warrington, Regional Manager, Equipment Services
S. Young, P. Eng., District Highways Manager
A.N. Hepp, District Highways Manager
S.D. Gladysz, District Highways Manager
R.E. Harrison, P. Eng., District Highways Manager
A.W. Hornsell, District Highways Manager
S. Paloposki, District Highways Manager
D.S. Kirk, District Highways Manager

Region 5

S.C. Christensen, Regional Manager, Paving
J. McDonell, Regional Property Negotiator
E.J. Robinson, Regional Manager, Equipment Services
W.E. Stanley, District Highways Manager
F. Rizzardo, District Highways Manager
H.A. Ronmark, District Highways Manager
L.M. Kelly, District Highways Manager

Region 6

B.T. Nielson, P. Eng., Regional Manager, Highways Design and Surveys
S. Cutt, Regional Manager, Equipment Services
J.W. Morris, District Highways Manager
J.C. Jensen, District Highways Manager
R.W. Ellis, District Highways Manager
W.R. Ball, District Highways Manager
P.D. Hughes, District Ferry Manager

ADMINISTRATION AND SERVICES

REPORT OF THE DIRECTOR OF PERSONNEL PROGRAMS

A.R. Limacher

The Ministry was allotted a Full Time Equivalents (F.T.E.) budget of 6,998 in the 1984/85 fiscal year. Actual use of F.T.E.'s during the year was approximately 6,700 due to staff restrictions and a reduced capital works program. The total number of employees on payroll fluctuated from 6,521 to 7,450 including seasonal auxiliaries.

The Ministry completed the complex process of reducing staff in the Ministry to meet the new F.T.E. target. With the cooperation of the bargaining agent and central agencies, the majority of long term surplus employees were successfully placed in alternative positions.

The Director and staff participated in a number of studies relating to a major restructuring of central personnel services and policies in government.

Reports of the activities of the various sections are detailed below:

PERSONNEL OPERATIONS AND OCCUPATIONAL HEALTH AND SAFETY PROGRAMS SECTION

This section, headed by a manager, provides personnel and occupational health and safety services to the four Departments of the Ministry with eight Regional Personnel Officers, one Senior and six Regional Occupational Health and Safety Officers.

Due to the continuing restraint and reduction of the public service during the last year, recruitment activity was limited. During the 1984/85 year, 469 job competitions were processed. This section also responded to five promotional appeals.

In 1984, the Ministry reported a total of 471 compensable injuries, down from the 591 injuries reported in 1983. Of these, 234 injuries resulted in lost time beyond the day of the accident. Also included were two fatalities to Ministry employees. A total 8,300 days were lost due to injury arising out of employment. This was an improvement over the last year.

The direct cost for compensation, including payouts for disabilities and medical aid costs, in 1984, totalled $1,288,026 down from $1,642,671 in 1983.

The Ministry had a total of 10,300,618 hours of work exposure resulting in an accountable accident frequency of 34.3 accidents per one million hours worked. This compares with 36.1 in 1983.

Region 3 (Nelson) won the Honourable Minister's Safety Trophy for the lowest countable accident frequency among Regions. Regional Safety Award winners were Gibsons, Vernon, Creston, McBride, Smithers and Nanaimo.

The Ministry currently has 120 joint union/management safety and health committees who have responsibility to make recommendations on safety and health in the workplace.

The hearing conservation program resulted in testing of 2,605 employees at a cost of $44,834. Additional on-going training was provided in first aid, traffic control, dangerous goods emergencies, fire protection, materials handling, welding safety, use of hand tools, and supervisory training in accident prevention. In 1984, there were 350 W.C.B. inspections of regional operations.

Under the Short Term Illness Injury and Long Term Disability Plans, there was a total of 343,764 days lost, with 281 employees off in excess of six months. The total S.T.I.I.P. cost for Ministry employees was $2,666,553 and the L.T.D. cost for Ministry employees was $2,068,895.

Through the screening committee, the Ministry placed 21 employees, who had been severely ill or injured, back into the workforce. This is out of a total of 77 employees who had received attention at screening committee in 1984.

EMPLOYEE PLANNING & DEVELOPMENT SECTION

The purpose of this section is to encourage excellent work habits and job performance from every Ministry employee by the following means:

1. Supplying accurate and timely human resource planning information to senior management, so that future staffing requirements can be effectively fulfilled.
2. Developing first class technical, administrative and leadership skills in every manager and supervisor.
3. Supporting or providing suitable and timely training and development opportunities, to all qualified and interested employees, in order to encourage them to develop relevant skills and knowledge so that current job requirements and individual career goals can be achieved.
4. Supplying a Human Resource Development consultative service to all managers, supervisors and personnel officers.

Transportation Systems Technology Program

This new program was developed by B.C.I.T. in conjunction with the Ministry of Transportation and Highways, and leads to a nationally recognized diploma in "Transportation Systems (Highways) Technology". The program has three levels based on a B.C.I.T. credit system in which one credit is equal to 12-15 classroom or equivalent hours.

This diploma program provides specific Ministry oriented technical training for Ministry employees, and because the program is delivered via B.C.I.T.'s Distance Education Department, the training will be available to employees in all areas of the Province.

Over 90% of study on this program is by correspondence, completed by employees during off duty time.

To date, 2,600 employees are registered, 289 have completed Level 1 certificates, 78 employees have attained national certificates in Transportation Technology and 180 employees have registered for the full national diploma.

Apprenticeship Program

Apprentice hiring has been completed in the following trades: Piledriver/Bridgeman, Heavy Duty Mechanic, Electrician and Marine Engineer.

As of March 31, 1985, there are 17 graduates of apprenticeship programs in the following trades: Piledriver/Bridgeman, Heavy Duty Mechanic, Electrician and Welder.

Computer Training

Employee Planning and Development in conjunction with Information Systems Branch has presented and supported a number of courses and training programs related to computer utilization. Since May 1984, more than 700 employees have had some direct form of computer oriented training. Programs have included: "Introduction to Microcomputers", "Orientation to Lotus 1-2-3 Software", "Word Processing Training", "Electronic Mail Training", "Computer Based Information Systems", etc., as well as specialized training for people involved in the development and use of specific information systems.

"Taking Charge of Your Career" Program

This program is designed for all women in the Ministry who are interested in improving their communication skills and setting realistic career goals. As of June 1984, there were over 1,000 women employed by the Ministry. After completing the "Taking Charge of Your Career" course, women will have the ability to formulate individual career plans; improve productivity; and, decide how to progress into more senior levels of responsibility. In fiscal 1984/85, 305 women had successfully completed this program.

Management Supervisory Development

Since February 1984, the course "Effective Management" has been offered to 98 excluded managers and engineers, technologists and senior staff who have direct responsibility for project management.

The course "Advanced Leadership" will give graduates of the Effective Management course the opportunity to practice the ideas and concepts learned in the first course. Video taping, peer group and instructor comments provide feedback to the trainees on their leadership styles and effectiveness. Seventeen managers have taken this program.

In addition to providing opportunities for managers to develop their skills and knowledge, the Ministry also offers a number of courses to assist supervisors. Since June 1983, more than 450 supervisors have successfully completed the first module of the supervisory training program. In addition, a number of supervisors have participated in a labour relations workshop and a course in instructional skills.

Video Training Programs

This winter has been a busy time for the production of Ministry video training programs. To meet operational training needs three programs are being produced in conjunction with the development of a Winter Maintenance video training package. The titles of these programs are: "Identification of Snowplow Hazards", "M535 Salt/Sand Control System", and a three part series on "Sanding" covering material preparation, vehicle preparation and operations and applications.

Program Development

Employee planning and development in cooperation with the Equipment Services Branch has introduced into each Region a set of grader training tapes. The tapes vary in length from five to 25 minutes depending on the complexity of the subject. Each tape clearly illustrates procedures such as disassembly and reassembly, overhaul and replacement, and troubleshooting on the 700 series motorgrader. The knowledge received from these tapes should increase troubleshooting skills and reduce equipment downtime. The plan is to make the tapes available to all Ministry shops.

Safe, Efficient Winter Driving

This course has been designed for those Ministry employees who drive government pool cars on a regular basis during the winter months. It is a half day course comprised of two hours of classroom instruction and two hours on a skid course — an ice covered parking area approximately 80 m by 80 m (with four people/vehicle/instructor). The course content covers: trip planning; vehicle inspection; winter safety kit and equipment; six primary hazards of winter driving; basic vehicle control; and, other winter driving tips. A variety of vehicles are used during the course (ie., front and rear wheel drive, import and domestic, small cars to full size vans) so that individuals will have an understanding of the handling characteristics of different types of units.

Equipment Operator Training Manual

In order to provide the same Equipment Operator Training Program to employees throughout the Province, the Ministry has produced an in-house operator training manual. With all Equipment Operator trainers using the same manual, training in this area will be standardized, and the possibility of error and accident further reduced. The manual will be continually updated in order to keep trainers and trainees abreast of changing technology. Ministry vehicles travelled over 54 million kilometres in 84/85 and 524 accidents were reported of which 303 were preventable.

EMPLOYEE RELATIONS SECTION

During the past year, 276 written grievances were initiated within the Ministry. As of April 1, 1985, 83 of these remain active before the Labour Relations Board as matters to be resolved. The total number of grievances currently filed for arbitration from this Ministry is approximately 100.

Over the past year this office represented the Ministry at three formal arbitration hearings. In addition to the three formal hearings, 42 cases were scheduled for the fast-track arbitration process. Of these 42 cases, all but seven were satisfactorily resolved prior to hearing.

The two highlights of the year which can be identified as having generated the highest volume of work are the implementation of Article 13 (lay off/ recall of regular employees) and its on-going administration, and the intro- duction of the article in the Collective Agreement which allows auxiliary employees to gain regular status after meeting an established criteria.

ORGANIZATION AND CLASSIFICATION SERVICES SECTION

This section provides establishment, organization and classification services to the Ministry. During this fiscal year the section continued its involvement in modifying the establishment and organization necessary as a result of the reduction of the Ministry approved work force which began in the 1983/4 fiscal year. A major feature of this involvement was the management of 'full-time equivalent' allocations to the various branches and regions of the Ministry.

Major studies completed during the course of the year were these:

a) The Technical Crew Study which concerned some 250 personnel at various classification levels who are engaged in survey and regulatory work.
b) The Financial Officer Study. The Manager of the Section was a member of an inter-Ministry committee which evaluated positions throughout the public service.
c) The Bridgeworker Trade Study and negotiations with the B.C. Government Employees' Union.
d) Ferry Shift captains, mates and engineers. The manager of the section was a member of the management team which bargained with the B.C.G.E.U.

Major studies which were commenced included the following:

a) The Administrative Officer series. Job descriptions are being prepared.
b) Motor Vehicle Department studies. Studies covering field offices and weighmaster's operations were commenced.

ADMINISTRATIVE SUPPORT SERVICES SECTION

The section provides administrative support to other sections of the Branch and processes all personnel documentation, appointments and monitors over 10,000 personnel related files.

Staff were involved in recording the major changes made to the Ministry's approved annual work force.

Severance payments were processed for 271 employees in a total amount of $1,506,467.

Removal and relocation expenses were processed for 236 employees at a total cost of $1,142,082.

Retirement submissions were processed for 149 employees with 46 of these receiving Meritorious Service Scrolls. Special recognition was given to 14 employees with 35 years of service and 71 employees with 25 years of service at a Government Long Service Awards ceremony.

REPORT OF THE DIRECTOR OF FINANCIAL SERVICES

S.E. Price

The following pages disclose in detail the Ministry of Transportation and Highways expenditures for the fiscal year 1984-85.

The total gross expenditure was $776,657,678 for the period. Highway maintenance costs were $257,787,191 and Highway capital construction costs were $408,121,512 in fiscal year 1984-85.

Major engineering and construction works continued on the Fraser River Crossing (Annacis), Northeast Coal Development Access Highway from Chetwynd to Tumbler Ridge and on the new Coquihalla Highway route from Hope-Merritt. Other major expenditures on construction activities included:

Highway 99 Garibaldi-Horseshoe Bay-Squamish - road and bridge construction
Greenville Bridge - Construction over the Nass River
Highway 37 Stewart-Cassiar - paving
Highway 97 Penticton Channel Parkway
Highway 11 Beck Road Bypass
Highway 7 Mary Hill Bypass
Highway 7 Lougheed Highway - widening Haney-Albion
Highway 24 Little Fort - Phinetta Lake Section
Halston Bridge and Approaches over the North Thompson River at Kamloops
Mount Seymour Parkway - North Vancouver
Highway 97 Okanagan Highway - Harvey Avenue and Westbank Sections
Highway 35 Burns Lake Bridge to Highway 16 construction
Highway 97 John Hart-Peace River Highway - Garbitt Tunnel reconstruction
Highway 16 Yellowhead Highway - Tyee CNR Overpass, construct approaches to bridges and pave
Kalum Lake Road - paving

The Motor Vehicle Department expenditures were $31,989,706 in 1984-85. The Branch handled a change in the design of the motor vehicle licence plate and decals and purchased most of the new plates and decals in the one year.

The Air Services Branch expenditures were $5,073,237 and costs included a number of engine overhauls in this fiscal period plus expanded use of the aircraft in providing more air ambulance service. No aircraft were purchased or sold during the year.

The Ministry continued to provide, through the Air Transport Assistance Program, grants to Municipalities, Regional Districts, and Societies for the development, construction, and improvement of local air transport facilities. Funds totalling $2,112,516 were expended on this program during the 1984-85 fiscal period.

The Ministry provided a ferry subsidy of $43,000,000 to the B.C. Ferry Corporation.

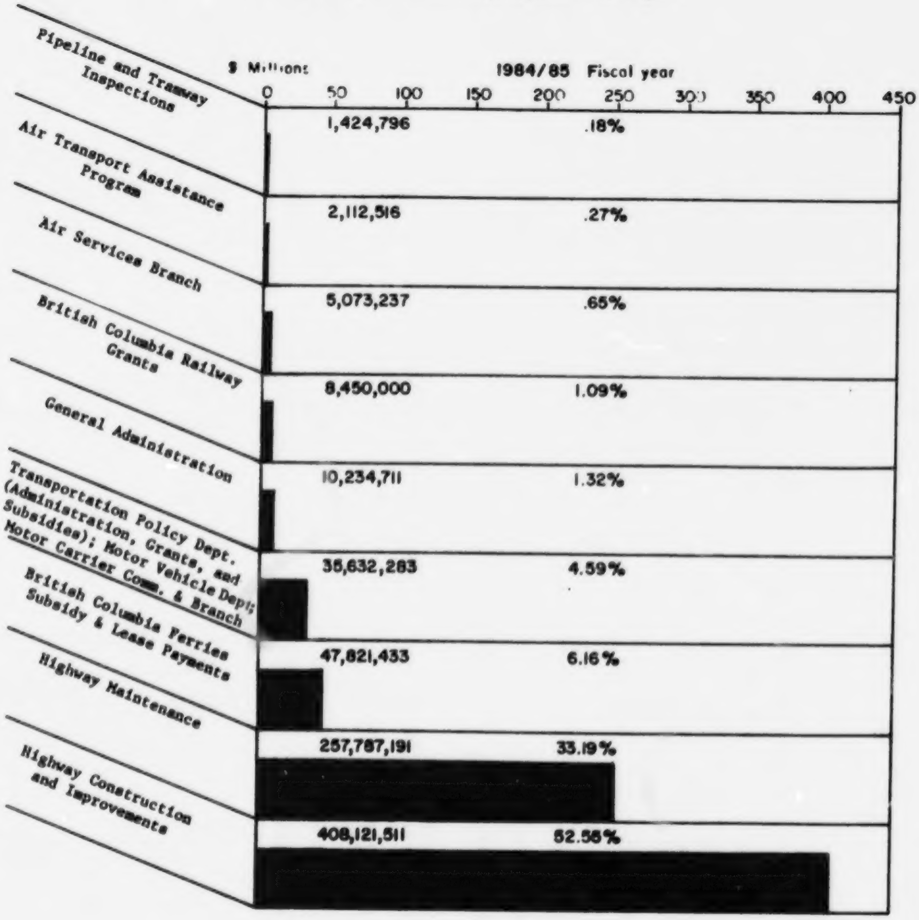
The Ministry also provided a grant of $7,650,000 to B.C. Rail in 1984-85 to cover the operating loss of the Fort Nelson extension and to provide assistance for the passenger service. In addition, a special payment of $800,000 was provided to B.C. Rail for the replacement of the Newman Creek Railway Bridge.

Disclaimer:

The financial statements contained in this annual report have been prepared by management in accordance with the accounting policies adopted by the Province of British Columbia. Management is responsible for the accuracy, integrity and objectivity of the information contained in these statements. Management maintains an extensive system of internal accounting controls to ensure that transactions are completely and accurately recorded on a timely basis, are properly approved and result in reliable financial statements.

The expenditures included here are incorporated in the combined financial statements of the Province, which are examined by the Auditor General. The Auditor General expresses an opinion as to whether the combined financial statements present fairly the financial position, operating results and changes in financial position of the Government of the Province of British Columbia in conformity with the stated accounting policies. This opinion is contained in the Auditor's Report which is included in the Public Accounts presented to the Legislative Assembly. However, at this time, the audit examination leading to this opinion is not yet complete.

How the Transportation and Highways dollar was spent:



$ 776,657,678 100.00%

SUMMARY OF EXPENDITURES, FISCAL YEAR 1984-85

Vote Number	Vote Description	1984-85 Vote Estimates (Including Special Warrants) $	1984-85 Total Expenditures Cash Basis $	1984-85 Accruals $	1984-85 Total Expenditures Accrual Basis $	1984-85 Net Over (Under) Expenditures $	1983-84 Total Expenditures $
62	Minister's Office	218,797.00	187,780.47		187,780.47	(31,016.53)	182,649.96
63	Administration and Services Department:	10,213,139.00					
	-General Administration -Highways	9,212,342.00	9,017,487.32		9,017,487.32	(194,854.68)	7,175,709.54
	-General Administration -Transportation	1,000,797.00	1,029,444.25		1,029,444.25	28,647.25	945,517.19
64	Highway Operations Department:	682,794,535.00 (1)					
	-Highway Maintenance	264,493,335.00	257,906,038.58	(118,847.49)	257,787,191.09	(6,706,143.91)	220,725,016.70
	-Highway Construction and Improvements	418,301,200.00	403,091,921.93	4,738,292.92	407,830,214.85	(10,470,985.15)	243,139,005.26
65	Hydro Development-Highway Construction	10.00	291,297.40		291,297.40 (2)		5,935,573.41
66	Motor Vehicle Department	32,855,515.00(3)	31,989,705.53		31,989,705.53	(865,809.47)	25,294,845.88
67	Motor Carrier Commission and Branch:	2,627,154.00					
	-Motor Carrier Branch	2,211,379.00	2,195,585.38		2,195,585.38	(15,793.62)	938,550.87
	-Motor Carrier Commission	415,775.00	388,103.19		388,103.19	(27,671.81)	175,297.19

SUMMARY OF EXPENDITURES, FISCAL YEAR 1984-85 (continued)

Vote Number	Vote Description	1984-85 Vote Estimates (Including Special Warrants) $	1984-85 Total Expenditures Cash Basis $	1984-85 Accruals $	1984-85 Total Expenditures Accrual Basis $	1984-85 Net Over (Under) Expenditures $	1983-84 Total Expenditures $
68	Transportation Policy Department:	5,695,879.00					
	-Administration - Transportation Policy Dept.	281,512.00	184,543.61		184,543.61	(96,968.39)	288,793.63
	-Transportation Policy Analysis Branch	3,890,016.00	2,986,857.92		2,986,857.92	(903,158.08)	2,645,814.84
	-Engineering Inspection Branch	1,524,351.00	1,424,796.70		1,424,796.70	(99,554.30)	1,341,207.04
69	Air Services Branch	5,228,694.00	5,073,237.02		5,073,237.02 (4)	(155,456.98)	4,047,690.40
70	Crown Corporation Assistance:	55,807,700.00					
	-British Columbia Ferry Corporation	47,822,700.00	46,571,038.11	1,250,395.06	47,821,433.17 (5)	(1,266.83)	47,821,332.35
	-British Columbia Railway Company	7,985,000.00	7,650,000.00		7,650,000.00	(335,000.00)	7,000,000.00
	Special Warrant Number 17 B.C. Railway-Newman Creek Railway Bridge	870,000.00	800,000.00		800,000.00	(70,000.00)	
	Employment Development Account						198,604,020.64
TOTAL, GROSS EXPENDITURES		796,311,423.00	770,787,837.41	5,869,840.49	776,657,677.90 (6)	(19,945,032.50)	766,241,024.90

SUMMARY OF EXPENDITURES, FISCAL YEAR 1984-85 (continued)

NOTES: (1) Includes Special Warrant Number 2 in the amount of $100,000,000.00 and Special Warrant Number 16 in the amount of $121,588,000.00.

(2) The sum of $291,297.40 is recoverable from B. C. Hydro and Power Authority in connection with the capital construction work paid for through this vote.

(3) Includes Special Warrant Number 5 in the amount of $4,820,000.00.

(4) Reflected in this figure is the recovery credit of $140,254.00 received from "Other Ministries and Outside Parties" using the Air Services Branch.

(5) Comprised of the annual subsidy to the B.C.Ferry Corporation ($43,000,000.00) and lease payments ($4,821,433.17) for three vessels operated by the corporation.

(6) Reflected in this figure is the sum of $5,889,840.49 which represents accrued charges applicable to fiscal year 1984-85.

SUMMARY OF EXPENDITURE BY VOTE, FISCAL YEAR 1984-85

	1983-84				1984-85			
$	$	$	$		$	$	$	$
162,649.96				Vote 62-Minister's Office				187,780.47
				Vote 63-Administration and Services Department:				
	7,175,709.54			-General Administration - Highways			9,017,487.32	
8,121,226.73	945,517.19			-General Administration - Transportation			1,029,444.25	10,046,931.57
				Vote 64-Highway Operations Department:				
				Highway Maintenance:				
			164,355,345.36	Roads:	170,101,325.83			
			36,251,435.00	-Snow removal	49,708,786.00			
		189,559,888.36	11,046,892.00cr	-Intra-Ministry materials usage credits	3,530,578.00cr	216,279,533.83		
		9,272,095.62		Bridges		9,954,990.51		
		31,271,460.24		Ferries		34,252,180.65		
		50,349,136.15		Machinery maintenance and operation:		53,491,995.79		
	220,725,016.70	59,727,563.67cr		-Intra-Ministry equipment rental credits		56,191,509.69cr	257,787,191.09	
				Highway Construction and Improvements:				
				Roads:				
			1,031,956.79	-Equipment capital purchases	929,901.89			
			579,529.35	-Radio-mobile installations	556,455.20			
			114,860,656.12	-Roads construction generally	202,852,331.04			
			743,763.73	-Roadside development and landscape	1,047,934.42			
		117,802,151.25	586,245.26	-Scientific and technical equipment	989,266.43	206,375,888.98		

SUMMARY OF EXPENDITURE BY VOTE, FISCAL YEAR 1984-85 (continued)

	1983-84					1984-85		
$	$	$	$		$	$	$	$
				Vote 64-Highway Operations Department - continued				
				Planning and Engineering Services:				
			84,756.30	-Archaeological explorations	176,802.08			
			7,155,600.17	-Geotechnical and materials engineering	9,903,040.22			
			544,263.80	-Highway safety measures	588,654.34			
			656,093.51	-Legal surveys	379,885.63			
				-Planning and engineering services generally	14,461,706.77			
			4,498,050.77	-Signals, lighting etc.	3,857,851.03			
		21,052,197.30	8,113,432.75	-Surveys generally	8,208,756.92	37,576,696.99		
		36,519,957.97		Rights-of-way and property purchases		25,462,791.72		
				Municipal Programs:				
			1,255,474.32	-Municipal contributions	584,287.92			
		2,762,218.07	1,506,743.75	-Secondary highways	1,054,566.61	1,638,854.53		
				Bridges and Ferries:				
			23,700,625.20	-Bridges	102,284,755.97			
		24,051,402.57	350,777.37	-Ferries	659,328.85	102,944,084.82		
		294,757.62		Ferry landings		474,760.76		
463,864,021.96	243,139,005.28	40,656,320.48		Paving		33,357,137.05	407,830,214.85	665,617,405.94

SUMMARY OF EXPENDITURE BY VOTE, FISCAL YEAR 1984-85 (continued)

	1983-84					1984-85		
$	$	$	$		$	$	$	$
				Vote 65-Hydro Development - Highway Construction:				
	2,646,230.06			Roads construction(Gross Expenditure)			208,234.88	
	822,193.95			Bridges............(Gross Expenditure)			4,147.29	
5,935,573.41	2,467,149.40			Paving.............(Gross Expenditure)			78,915.23	291,297.40(1)
				Vote 66-Motor Vehicle Department:				
				Administration and Safety Branch:				
	592,102.58			-Administration - Administration and Safety Branch			606,062.70	
	466,349.71			-Road User Safety Program			474,265.03	
				Vehicle and Drivers Licencing Branch:				
	184,085.14			-Regional Coordinators Program			270,825.50	
	7,852,734.65			-Vehicle Licencing Division		15,592,093.86		
	8,657,782.53			-Drivers Licencing Division		9,072,326.95		
				Standards and Compliance Branch:				
	4,106,940.52			-Commercial Transport Division			4,796,366.81	
	3,374,947.94			-Motor Vehicle Inspection Division			1,114,468.15	
25,294,845.83	59,902.81			-Standards and Industrial Roads Division			63,296.53	31,989,705.53
				Vote 67-Motor Carrier Commission and Branch:				
	938,550.87			Motor Carrier Branch			2,195,585.38	
1,113,848.06	175,297.19			Motor Carrier Commission			388,103.19	2,583,688.57
				Vote 68-Transportation Policy Department:				
	288,793.63			Administration - Transportation Policy Department			184,543.61	
				Transportation Policy Analysis Branch:				
		534,055.73		-Administration, Grants and Subsidies		874,341.66		
	2,645,814.84	2,111,759.11		-Air Transport Assistance Program		2,112,516.26	2,986,857.92	
4,275,815.51	1,341,207.04			Engineering Inspection Branch		1,424,796.70	4,596,198.23	

SUMMARY OF EXPENDITURE BY VOTE, FISCAL YEAR 1984-85 (continued)

1983-84					1984-85		
$	$	$	$		$	$	$
				Vote 69–Air Services Branch:			
	4,347,552.40			Expenditures		5,213,491.02	
4,047,690.40	299,862.00cr			Recoveries		140,254.00cr	5,073,237.02(2)
				Vote 70–Crown Corporation Assistance:			
	47,821,332.35			British Columbia Ferry Corporation		47,821,433.17 (3)	
54,821,332.35	7,000,000.00			British Columbia Railway Company		7,650,000.00	55,471,433.17
				Special Warrant Number 17:			
				B.C.Railway - Newman Creek Railway Bridge		800,000.00	
				Employment Development Account:			
	94,867,103.10			Roads			
	41,997,831.21			Bridges			
	334,123.05			Ferry Landings			
198,604,020.64	61,404,963.28			Paving			
706,241,034.90				TOTAL, GROSS EXPENDITURE			776,657,677.90(4)

SUMMARY OF EXPENDITURE BY VOTE, FISCAL YEAR 1984-85 (continued)

NOTES: (1) The sum of $291,297.40 is recoverable from B.C. Hydro and Power Authority in connection with the capital construction work paid for through this Vote.

(2) Reflected in this figure is a recovery credit of $140,254.00 received from "Other Ministries and Outside Parties" using the Air Services Branch.

(3) Comprised of the Annual Subsidy to the B.C. Ferry Corporation ($43,000,000.00) and lease payments ($4,821,433.17) for three vessels operated by the Corporation.

(4) Reflected in this figure is the sum of $5,869,840.49 which represents accrued charges applicable to fiscal year 1984-85.

DETAILS OF EXPENDITURES BY APPROPRIATIONS AND ACTIVITIES, AND BY STANDARD EXPENDITURE CLASSIFICATIONS

VOTE 62

MINISTER'S OFFICE

This vote provides for the operation of the Office of the Minister of Transportation and Highways, including the minister's salary and expenses and those of the immediate staff.

1983-84			1984-85	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	154,946	Salaries and benefits		178,311
	7,704	Operating costs		9,469
200,936	162,650		218,797	187,780

VOTE 63

ADMINISTRATION AND SERVICES DEPARTMENT

This vote provides for the executive direction of the ministry and for the administrative and support services to the operating, planning and research program, including the management of the ministry's resources.

1983-84			1984-85	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	4,045,722	Salaries and benefits		4,786,720
	4,023,336	Operating costs		4,726,763
	42,156	Asset acquisitions		533,449
	10,013	Other expenditures		
9,035,729	8,121,227		10,213,139	10,046,932

VOTE 64

HIGHWAY OPERATIONS DEPARTMENT

This vote provides for the year-round maintenance and operation of the existing highway and ferry system, and for the development and expansion of the system to meet transportation needs of industry and the general public including:

(a) Highway Maintenance - This sub-vote provides for the maintenance and operation of highways and roads, bridge structures, ferry routes, ferry landings, and tunnels, the operation and replacement of equipment and winter maintenance involving snow and ice removal. Contributions are provided to various organizations in support of ski hill access, highway research and other transportation-related activities. Recoveries are received from the British Columbia Ferry Corporation for repairs to docks and other installations and vehicle maintenance.

(b) Highway Construction and Improvements - This sub-vote provides for the development, improvement and expansion of the highway and ferry system including planning, engineering, design, survey, construction, reconstruction, paving and rights-of-way acquisition and property purchase, all relating to provincial highways, roads, bridges, ferries, ferry landings, and tunnels. It provides for the purchase of equipment and machinery, and payment of authorized contributions to other levels of government in connection with their highway systems. Recoveries are received from shared programs with the federal government for railway crossings as well as North East Coal grade construction in conjunction with the British Columbia Railway Company.

1983-84				1984-85	
Appropriations	Actual Expenditures	Group account classification		Appropriations	Actual Expenditures
	152,158,650	Salaries and benefits			182,860,933
	208,743,438	Operating costs			212,576,262
	104,579,474	Asset acquisitions			267,353,794
	4,787,084	Grants and contributions			3,264,720
	250,389	Other expenditures			117,091
		Recoveries:			
	40,573 cr	British Columbia Buildings Corp.	405,394 cr		
	2,481,683 cr	British Columbia Ferry Corporation	150,000 cr		555,394 cr
	5,001 cr	British Columbia Railway			
	3,927,306 cr	Federal Government			
	200,431 cr	Miscellaneous			
		Main Estimates:		461,206,535	
		Special Warrant No.2		100,000,000	
		Special Warrant No.16		121,588,000	
468,289,850	463,864,022			682,794,535	665,617,406

VOTE 65

HYDRO DEVELOPMENT - HIGHWAY CONSTRUCTION

This vote provides for the relocation and/or reconstruction of Provincial highways, caused by the construction of British Columbia Hydro and Power Authority dams. All costs resulting from highway relocation or reconstruction are recovered from the British Columbia Hydro and Power Authority.

1983-84			1984-85	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	494,449	Salaries and benefits		44,916
	826,144	Operating costs		96,678
	4,614,980	Asset acquisitions		149,703
10	5,935,573		10	291,297.(1)

NOTE: (1) The sum of $291,297 is totally recoverable from B. C. Hydro and Power Authority in connection with the capital construction work paid for through this Vote.

VOTE 66

MOTOR VEHICLE DEPARTMENT

This vote provides for the administration of the laws, regulations, and policies governing the operation of motor vehicles and industrial equipment in accordance with provisions of the Motor Vehicle Act, Commercial Transport Act, Motor Vehicle (All Terrain) Act and Highway (Industrial) Act and accompanying regulations including:

(a) Administration and Safety Branch - This sub-vote provides for the offices of the Superintendent of Motor Vehicles and branch directors, for coordinated direction for the motor vehicle department, and for planning, development and implementation of related policies and procedures including effective road user safety programs. Grants are provided to regional safety councils for coordinated activities promoting road user safety.

(b) Vehicle and Drivers Licensing Branch - This sub-vote provides for the registration and licensing of motor vehicles operating on public highways and roads and includes the issuance of automobile insurance policies for the Insurance Corporation of British Columbia, and the licensing of persons to operate motor vehicles on public highways and roads. The latter includes the monitoring of driving records, determining the ability and fitness of persons to operate motor vehicles and collecting revenue resulting from the issuance of licences and permits.

(c) Standards and Compliance Branch - This sub-vote provides for the development and implementation of industrial road safety programs, the establishment of industrial equipment standards and standards of maintenance, and operator licensing practices and procedures as specified by the Highway (Industrial) Act. This sub-vote also monitors all commercial vehicle routes involving load measurement and weighing, issuing permits, traffic tickets and warnings, and collecting revenue resulting from the issuance of permits.

1983-84			1984-85	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	14,662,425	Salaries and benefits		14,983,078
	9,984,629	Operating costs		15,699,211
	61,825	Asset acquisitions		840,837
	433,314	Grants and contributions		459,452
	152,653	Other expenditures		7,128
		Main Estimates:	28,035,515	
		Special Warrant No.5	4,820,000	
25,400,686	25,294,846		32,855,515	31,989,706

VOTE 67

MOTOR CARRIER COMMISSION AND BRANCH

This vote provides for the regulation of the motor carrier industry through hearings, inspections and licensing procedures including:

(a) Motor Carrier Commission - This sub-vote provides for the regulation of the motor carrier industry intra-provincially by a Provincial board pursuant to the Motor Carrier Act, and extra-provincially by membership on a federal board pursuant to the Motor Vehicle Transport Act (Canada).

(b) Motor Carrier Branch - This sub-vote provides for investigations into the licensing of the commercial motor carrier industry in the for-hire transportation of freight and passengers. It provides for examination of schedules of rates charged by carriers as well as time schedules and for the collection of revenue resulting from the issuance of licences. It also provides for recommendations to the Motor Carrier Commission, the implementation of decisions made by the commission with respect to such applications, and for safety inspections of public passenger vehicles.

1983-84			1984-85	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	796,251	Salaries and benefits		1,810,777
	317,587	Operating costs		694,867
		Asset acquisitions		78,045
	10	Other expenditures		
1,258,273	1,113,848		2,627,154	2,583,689

VOTE 68

TRANSPORTATION POLICY DEPARTMENT

This vote provides for the development, evaluation and implementation of transportation policy in the marine, air, rail and other surface systems. It also provides for regulatory activity under the Pipeline Act and Railway Act. Major programs and activities include:

(a) Administration - Transportation Policy Department - This sub-vote provides executive direction of the department.

(b) Transportation Policy Analysis Branch - This sub-vote provides for the development of a comprehensive provincial transportation policy, including consideration of the transportation services of the British Columbia Ferry Corporation and the British Columbia Railway Company. This sub-vote also provides for the air transport assistance program which provides grants to communities to develop local airport facilities.

(c) Engineering Inspection Branch - This sub-vote provides for regulatory activity, such as monitoring of construction, final inspections and annual inspection or certification of industrial projects under the Railway Act and Pipeline Act. The branch also examines and certifies operating personnel for railway and aerial tramways.

1983-84			1984-85	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	1,492,067	Salaries and benefits		1,714,016
	743,145	Operating costs		1,652,887
	1,064	Asset acquisitions		298,399
	1,979,940	Grants and contributions		930,896
	59,600	Other expenditures		
5,721,481	4,275,816		5,695,879	4,596,198

VOTE 69

AIR SERVICES BRANCH

This vote provides for the air services requirements of the Provincial Government including the acquisition and maintenance of aircraft, air and ground crews and other related operating and administrative costs. Recoveries are received from other ministries for staff travelling on government aircraft.

1983-84			1984-85	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	1,694,794	Salaries and benefits		1,998,112
	2,687,971	Operating costs		3,185,467
	25,236	Asset acquisitions		29,912
	71	Other expenditures		
		Recoveries:		
	287,937 cr	Ministries-Travel		140,254 cr
	72,445 cr	Other		
4,385,176	4,047,690		5,228,694	5,073,237

AIR TRANSPORT ASSISTANCE PROGRAM
SUMMARY OF AIRPORT ASSISTANCE PROJECTS

Project	Description	Electoral District	Recipient	$
A-0399	Atlin, relocate portion of Surprise Lake Road and install perimeter fencing	Atlin	Atlin District Board of Trade	125,000.00
A-0492	Administration and Overhead, Air Transport Assistance Program	Headquarters	N/A	302,732.57
A-0987	Pemberton, extend gravel runway and enlarge parking apron	West Vancouver-Howe Sound	Village of Pemberton	125,000.00
A-0988	Merritt, purchase and install aviation fuel dispensing system	Yale-Lillooet	City of Merritt	50,000.00
A-2288	Bella Bella, construct parking apron for aircraft and extend access road	Mackenzie	Denny Island Airport Society	225,000.00
A-2360	Revelstoke, asphalt seal coat on access and service roads	Shuswap-Revelstoke	Columbia Shuswap Regional District	23,159.68
A-2668	Elk Valley, pave runway, taxiway, and parking apron	Kootenay	East Kootenay Regional District	313,198.60
A-2669	108 Mile, pave runway and parking apron	Cariboo	Cariboo Regional District	295,641.57
A-2675	Cache Creek, construct gravel runway and parking apron	Yale-Lillooet	Village of Cache Creek	415,800.12
A-2678	Lillooet, grade and seed airport property	Yale-Lillooet	Village of Lillooet	5,000.00
A-2773	McBride, pave runway and aircraft parking apron	Prince George South	Village of McBride	219,483.72
A-2850	Pender Island, construct emergency use helipad	Saanich and the Islands	Capital Regional District	12,500.00
Total Grants Awarded:				2,112,516.26

VOTE 70

CROWN CORPORATION ASSISTANCE

This vote provides for provincial contributions to the British Columbia Ferry Corporation and the British Columbia Railway Company.

(a) British Columbia Ferry Corporation - This sub-vote provides for a contribution to the British Columbia Ferry Corporation and also provides for lease payments and related administrative costs for ferries leased to and operated by the corporation.

(b) British Columbia Railway Company - This sub-vote provides for a contribution to the British Columbia Railway Company to compensate the railway for the operating loss on government mandated services.

1983-84			1984-85	
Appropriations	Actual Expenditures	Group account classification	Appropriations	Actual Expenditures
	4,821,332	Operating costs		1,633
		Asset acquisitions		4,819,800
	50,000,000	Grants and contributions		50,650,000
54,822,700	54,821,332		55,807,700	55,471,433

FINANCIAL ADMINISTRATION ACT

(S.B.C.1981, CHAPTER 15, SECTION 21(1))

Special Warrant No. 17 - B. C. Railway: Newman Creek Railway Bridge.

	1984-85	
Group account classification	Appropriations	Actual Expenditures
Grants and contributions		800,000
	870,000	800,000

STATEMENT OF REVENUE AND EXPENDITURES FOR FERRIES FOR WHICH THE COST OF MAINTENANCE AND OPERATION IS PROVIDED FOR IN MINISTRY OF TRANSPORTATION AND HIGHWAYS ESTIMATES

Name of Ferry	1983/84		1984/85	
	Revenue $	Expenditures $	Revenue $	Expenditures $
Albion-Fort Langley Ferry	NIL	1,863,412.13	NIL	2,090,226.58
Alert Bay Ferry	315,673.80	1,679,597.49	371,312.10	1,899,559.40
Arrow Park Ferry	NIL	121,169.29	NIL	120,647.03
Barkley Sound Ferry subsidy	NIL	253,000.00	NIL	253,000.00
Barnston Island Ferry	NIL	437,860.32	NIL	365,984.49
Big Bar Ferry	NIL	85,199.90	NIL	66,999.06
Castlegar Ferry	NIL	248,735.92	NIL	238,233.97
Clayhurst Ferry	NIL	349,494.70	NIL	373,200.50
Comox-Powell River Ferry	1,697,379.41	5,034,973.05	1,929,688.14	5,362,465.14
Cortes Island Ferry	115,379.00	1,009,709.18	135,363.35	872,985.75
Denman Island Ferry	299,942.40	1,266,733.17	332,749.51	1,594,455.09
Fort Nelson Hover Ferry	NIL	254,077.81	NIL	NIL
Francois Lake Ferry	NIL	1,433,296.33	NIL	1,441,066.53
Gabriola Ferry	643,021.98	2,969,623.87	740,035.14	2,624,796.14
Glade Ferry	NIL	140,051.91	NIL	178,409.11
Harrop Ferry	NIL	228,040.18	NIL	246,218.18
Hornby Island Ferry	112,518.50	1,083,766.04	119,889.90	858,491.46
Isle Pierre Ferry	NIL	11,449.98	NIL	NIL
Kootenay Lake Ferry	NIL	1,830,992.88	NIL	2,091,749.58
Lasqueti Island Ferry subsidy	NIL	194,000.00	NIL	194,000.00
Little Fort Ferry	NIL	76,152.64	NIL	75,971.94
Lytton Ferry	NIL	158,208.80	NIL	274,603.55
Marguerite Ferry	NIL	93,138.65	NIL	86,227.62
McLure Ferry	NIL	58,059.86	NIL	72,645.96
Miscellaneous	NIL	568,100.09	NIL	3,730,958.04
Misty Islands Ferry subsidy	NIL	33,000.00	NIL	33,000.00
Needles-Fauquier Ferry	NIL	1,064,287.03	NIL	1,037,195.85
Newcastle Island Ferry subsidy	NIL	20,060.00	NIL	17,260.00
North Bend Ferry	NIL	318,994.35	NIL	354,500.00
Prince Rupert Ferry subsidy (Dodge Cove)	NIL	15,806.68	NIL	15,500.04
Quadra Island Ferry	475,660.90	1,932,818.78	577,102.70	1,751,501.83
Queen Charlotte Islands Ferry	150,423.80	659,250.58	186,758.15	747,708.99
Shuswap Lake Ferry subsidy	NIL	26,400.00	NIL	26,400.00
Sunshine Bay Drydock	NIL	8,095.74	NIL	12,598.60
Texada Island Ferry	210,961.85	1,930,302.47	232,779.06	1,920,695.03
Thetis Island Ferry	129,654.77	1,078,937.28	157,036.65	1,240,457.29
Upper Arrow Lakes Ferry	NIL	1,511,608.58	NIL	1,504,471.62
Usk Ferry	NIL	114,507.16	NIL	127,000.00
Woodfibre Ferry	7,979.00	750,069.98	NIL.	14,973.23
TOTALS:	4,158,595.41	30,912,982.82	4,782,714.69	33,916,157.60

STATEMENT OF VALUE OF INTRA-MINISTRY USAGE BY HIGHWAY DISTRICT AND BRANCH, FISCAL YEAR 1984-85

Highway District and Branch	Value of Usage of Ministry Owned Equipment $	Value of Usage of Crushed Gravel $
DISTRICTS:		
Burns Lake	1,174,349.60	81,743.00
Centreline Marking	446,582.00	NIL
Chilliwack	2,550,201.00	235,009.00
Courtenay	1,603,267.00	89,877.00
Cranbrook	820,089.78	114,558.00
Creston	789,431.58	92,972.00
Dawson Creek	1,998,889.00	224,334.00
Dease Lake	1,143,434.00	161,799.00
Dock Engineering and Operations Unit	297,878.00	NIL
Electrical Maintenance	399,857.00	NIL
Fernie	753,298.81	33,270.00
Fort St. John	1,965,980.00	136,294.00
Golden	965,724.00	46,364.00
Gibsons	577,706.00	24,824.00
Grand Forks	862,113.33	76,893.00
Kamloops	1,547,396.00	49,425.00
Kelowna	999,479.00	28,042.00
Lillooet	1,002,394.00	79,708.00
Merritt	1,314,902.00	155,255.00
McBride	1,128,709.00	232,130.00
Nanaimo	1,342,072.00	121,318.00
Nelson	1,083,078.45	131,415.00
New Denver	1,078,471.00	105,974.00
New Westminster	1,711,420.00	956.00
North Vancouver	1,264,352.00	50,971.00
100 Mile House	1,199,059.00	87,074.00
Patrol	148,054.00	NIL
Penticton	1,317,225.00	193,541.00
Port Alberni	922,902.88	90,889.00
Prince George	2,444,894.00	115,771.00
Prince Rupert	1,144,105.00	55,550.00
Quesnel	2,290,754.00	31,907.00
Revelstoke	1,032,214.00	37,213.00
Rossland	888,025.00	129,250.00
Saanich	1,307,337.00	75,682.00
Salmon Arm	1,280,892.00	83,047.00
Smithers	1,058,146.00	67,173.00
Terrace	839,415.00	31,495.00
Vanderhoof	1,304,491.00	43,470.00
Vernon	945,547.00	44,956.00
Williams Lake	1,895,472.00	170,429.00
Region 6 Ferry District	43,933.00	NIL
REGIONS:		
Headquarters - Region 1	317,192.00	NIL
Headquarters - Region 2	423,203.00	NIL
Headquarters - Region 3	232,393.26	NIL
Headquarters - Region 4	345,415.00	NIL
Headquarters - Region 5	119,648.00	NIL
Headquarters - Region 6	79,924.00	NIL
AIR SERVICES BRANCH:		
Air Services Operations	18,445.00	NIL
MOTOR VEHICLE DEPARTMENT:		
Administration & Safety Branch	36,697.00	NIL
Commercial Transport Division	131,278.00	NIL
Drivers Licencing Division	70,330.00	NIL
Motor Vehicle Inspection Division	100,572.00	NIL
Regional Co-ordinators Program	17,653.00	NIL
Vehicle Licencing Division	15,197.00	NIL

STATEMENT OF VALUE OF INTRA-MINISTRY USAGE BY HIGHWAY DISTRICT AND BRANCH, FISCAL YEAR 1984-85 (continued)

Highway District and Branch	Value of Usage of Ministry Owned Equipment $	Value of Usage of Crushed Gravel $
TRANSPORTATION POLICY DEPARTMENT:		
Engineering Inspection Branch	86,416.00	NIL
HEADQUARTERS:		
Assistant Deputy Minister-Administration and Services Department	16,031.00	NIL
Bridge Engineering Branch	216,779.00	NIL
Communications Engineer	203,665.00	NIL
Construction Branch	1,757,215.00	NIL
Equipment Services Branch	126,373.00	NIL
Financial Services Branch	7,086.00	NIL
Geotechnical & Materials Engineering Branch	1,256,023.00	NIL
Highway Design & Surveys Branch	475,899.00	NIL
Highway Planning	5,790.00	NIL
Maintenance Services Branch	4,895.00	NIL
Paving Branch	1,183,566.00	NIL
Traffic Engineering	60,284.00	NIL.
TOTALS:	56,191,509.69	3,530,578.00

STATEMENT OF EXPENDITURE BY HIGHWAY DISTRICT (INCLUDING HEADQUARTERS), FISCAL YEAR 1984/85

VOTE 084 HIGHWAY MAINTENANCE

Highway District	Roads $	Snow Removal $	Bridges $	Ferries $	Machinery $	1984-85 Total $	1983-84 Total $
REGION/DISTRICT 1 - BURNABY	1,940,055.33		522,698.83			2,462,754.16	2,687,233.92
North Vancouver	3,191,192.84	1,236,651.00	273,115.35	14,973.23		4,715,932.42	5,268,551.50
Gibsons	1,669,614.18	327,919.00	138,099.72			2,135,632.90	2,056,413.61
Patrol	699,947.38					699,947.38	1,022,447.25
New Westminster	5,796,083.18	814,882.00	514,000.00	2,456,211.07		9,581,176.25	9,213,634.76
Chilliwack	4,302,060.55	3,023,353.00	306,290.75	354,500.00		7,986,204.30	6,908,977.45
Dock	423,625.17cr					423,625.17cr	425,515.41cr
Electrical Maintenance	2,379,872.21					2,379,872.21	2,170,111.10
Centreline Marking	4,835,866.54					4,835,866.54	4,910,256.03
REGION/DISTRICT 2 - KAMLOOPS	2,421,540.17		192,756.53			2,614,296.70	2,857,551.39
Kamloops	2,931,393.45	2,023,254.00	177,534.51	148,617.90		5,280,799.86	5,058,912.46
Salmon Arm	2,914,008.56	1,389,330.00	263,738.89	26,400.00		4,593,477.45	4,521,890.55
Vernon	2,671,554.19	1,073,477.00	205,774.12			3,950,805.31	4,024,310.76
Penticton	2,887,414.60	1,316,961.00	172,917.53			4,377,293.13	4,372,765.36
Merritt	1,840,545.24	1,403,953.00	96,594.50	274,603.55		3,615,696.29	3,867,111.22
Lillooet	2,433,900.17	861,703.00	158,157.45			3,453,760.62	3,554,412.68
100 Mile House	2,516,741.51	1,465,899.00	98,800.48	66,999.06		4,148,440.05	4,235,207.29
Kelowna	2,497,231.72	1,066,553.00	146,363.99			3,710,148.71	3,223,489.49
REGION/DISTRICT 3 - NELSON	1,768,317.63		323,133.91			2,091,451.54	2,090,974.77
Nelson	2,103,410.82	1,177,813.00	187,480.23	2,528,975.47		5,997,679.52	5,378,123.16
Rossland	1,559,175.78	1,367,107.00	86,833.70	238,233.97		3,251,350.45	3,146,900.85
Grand Forks	1,864,395.63	931,875.00	135,000.00			2,931,270.63	2,836,003.61
New Denver	2,162,210.35	981,122.00	105,264.38	1,157,842.88		4,406,439.61	4,136,310.31
Cranbrook	2,035,784.79	781,613.00	106,910.63			2,924,308.42	2,849,176.96
Fernie	1,495,078.32	1,033,039.00	110,461.14			2,638,578.46	2,146,299.68
Golden	2,125,466.78	956,110.00	202,651.07			3,284,227.85	3,326,037.83
Revelstoke	1,541,667.42	1,532,463.00	145,599.68	1,504,471.62		4,724,201.72	4,926,641.43
Creston	1,766,686.63	1,096,702.00	77,772.09			2,941,160.72	2,502,043.91
REGION/DISTRICT 4 - PRINCE GEORGE	1,934,742.57		227,868.90			2,162,611.47	2,566,181.22
Prince George	3,928,337.80	3,032,761.00	407,498.94			7,368,597.74	7,168,570.96
Quesnel	3,072,540.54	2,589,466.00	190,698.79	86,227.62		5,938,932.95	5,383,050.64
Dawson Creek	4,309,356.04	2,617,048.00	197,139.18	373,200.50		7,496,743.72	6,574,358.88
Fort St. John	3,799,478.20	1,792,821.00	272,274.87			5,864,574.07	6,041,688.91
Vanderhoof	2,474,847.21	1,129,535.00	197,546.66			3,801,928.87	3,795,286.31

STATEMENT OF EXPENDITURE BY HIGHWAY DISTRICT (INCLUDING HEADQUARTERS), FISCAL YEAR 1984/85 (continued)

VOTE 064 HIGHWAY MAINTENANCE (continued)

Highway District		Roads $	Snow Removal $	Bridges $	Ferries $	Machinery $	1984-85 Total $	1983-84 Total $
McBride		1,819,959.18	1,521,015.00	119,369.67			3,460,343.85	3,254,720.88
Williams Lake		3,836,905.00	1,922,758.00	339,223.46			6,098,886.46	5,494,721.70
REGION/DISTRICT 5 - TERRACE		1,536,146.32		143,000.00			1,679,146.32	1,400,932.03
Prince Rupert		2,062,069.67	1,306,079.00	431,000.00	796,209.03		4,595,357.70	4,430,982.38
Terrace		2,035,693.05	985,231.00	134,000.00	127,000.00		3,281,924.05	2,827,459.08
Dease Lake		2,587,052.70	1,312,912.00	177,159.01			4,077,123.71	3,907,684.11
Smithers		2,241,848.22	1,328,059.00	149,605.80			3,719,513.02	3,715,476.07
Burns Lake		2,027,199.90	1,245,551.00	107,168.67	1,441,066.53		4,820,986.10	4,738,424.69
REGION/DISTRICT 6 - NANAIMO		1,375,106.57		97,102.89			1,472,209.46	1,400,051.79
Nanaimo		4,063,523.12	750,161.00	184,066.43	17,260.00		5,015,010.55	4,472,035.96
Saanich		4,470,900.93	566,585.00	228,692.60			5,266,178.53	5,286,434.68
Port Alberni		3,093,177.05	685,296.00	196,838.02	447,000.00		4,422,311.07	4,110,213.43
Courtenay		4,792,751.90	1,061,729.00	338,643.22			6,193,124.12	5,964,974.79
Region 6 Ferry District					18,125,407.13		18,125,407.13	17,986,461.33
ROADS GENERALLY								
PROJECTS:								
E-0067–Traffic Branch (Headquarters operations)	549,016.08							
E-0069–Street lighting and traffic signals	1,613,272.69							
E-1773–Automatic railway signal maintenance	396,823.94							
F-0041–Leases and agreements (Headquarters)	340,967.19							
F-0043–Taxes	14,619.87							
F-0044–Advertising & Publicity	13,786.01							
F-0048–Damage claims	117,324.40							
F-0049–Insurance re trailer moves & household effects	26,413.00							
F-0051–Miscellaneous	86,570.36							
F-0052–Grants, engineering and dyking	112,385.95							

STATEMENT OF EXPENDITURE BY HIGHWAY DISTRICT (INCLUDING HEADQUARTERS), FISCAL YEAR 1984/85 (continued)

VOTE 064 HIGHWAY MAINTENANCE (continued)

Highway District		Roads $	Snow Removal $	Bridges $	Ferries $	Machinery $	1984-85 Total $	1983-84 Total $
ROADS GENERALLY (continued)								
PROJECTS:								
F-1899-Reimbursement from union - leave without pay	152,519.95cr							
H-0080-Highway signs operations (financing)	159,258.87cr							
M-0053-Maintenance services generally (Headquarters operations)	216,873.31							
M-0055-Avalanche control	414,883.69							
M-0056-Scenic Highway Act	1,742.87							
M-2457-Photocopier rental and operation charges	148,976.24							
M-2589-Telecommunication charges-districts & regions	1,367,471.48							
M-2604-Road maintenance-employee benefits	15,724,834.00							
T-1194-Highways road maintenance -base occupancy charges	22,444,517.86							
T-1196-Highways road maintenance -tenant improvement charges	386,219.56							
Z-1237-Avalanche monitoring system	78,283.70							
Z-1240-Maintenance management	222,970.09							
Z-1241-Shared equipment	1,064,040.47							
Crushed gravel production	3,782,835.12							
Intra-Ministry material use credits	3,530,578.00cr	45,181,521.06					45,181,521.06	25,239,773.21
BRIDGES GENERALLY								
PROJECTS:								
B-0059-Bailey bridges	178,767.92							
B-2605-Bridge maintenance-employee benefits	889,376.00			1,068,143.92			1,068,143.92	581,109.74

STATEMENT OF EXPENDITURE BY HIGHWAY DISTRICT (INCLUDING HEADQUARTERS), FISCAL YEAR 1984/85 (continued)

VOTE 064 HIGHWAY MAINTENANCE (continued)

Highway District		Roads $	Snow Removal $	Bridges $	Ferries $	Machinery $	1984-85 Total $	1983-84 Total $
FERRIES GENERALLY								
PROJECTS:								
H-0061-Ferries generally	651,041.04							
H-2606-Ferry maintenance-employee benefits	3,079,917.00							
T-1196-Highways ferries -base occupancy charges	307,601.06							
Z-1242-Ferry management system	28,421.99							
					4,066,981.09		4,066,981.09	926,577.51
MACHINERY GENERALLY								
PROJECTS:								
H-0063-Machinery (Hdqtrs. maintenance and operations generally)	1,396,071.73							
H-0064-Autoplan insurance	1,142,865.40							
H-0065-Radio-mobile maintenance	1,226,047.72							
H-0066-Machinery replacement, motor vehicles	1,413,418.71							
H-1310-Machinery and equipment replacement	4,330,228.77							
H-2607-Machinery maintenance & operations-employee benefits	2,837,486.00							
Z-1243-Equipment management system	132,985.97							
Z-1857-Communications engineer	23,885.57							
-Machinery maintenance and operation-districts	40,989,005.92							
-Intra-Ministry equipment rental credits	56,191,509.69cr							
						2,699,513.90cr	2,699,513.90cr	9,378,427.52cr
		168,570,747.83	49,708,786.00	9,954,990.51	34,252,180.65	2,699,513.90cr	257,787,191.09	220,725,016.70

SUMMARY OF CAPITAL AND MAINTENANCE EXPENDITURES FOR ROADS, BRIDGES, FERRIES, LEGAL SURVEYS, RIGHTS-OF-WAY, PAVING, ETC.
FISCAL YEAR 1984-85

Electoral District	Vote 64 Highway Construction $	Vote 65 Hydro Development $	Total Capital $	Maintenance $	Total $
Alberni	320,315.55	-	320,315.55	2,617,800.79	2,938,116.34
Atlin	5,211,487.14	-	5,211,487.14	5,813,094.90	11,024,582.04
Boundary-Similkameen	3,542,587.14	-	3,542,587.14	6,240,425.07	9,783,012.21
Burnaby-Edmonds	1,098,947.75	-	1,098,947.75	2,364,395.53	3,463,343.28
Burnaby North	4,594.82	-	4,594.82	204,406.85	209,001.67
Burnaby-Willingdon	417,028.85	-	417,028.85	224,918.71	641,947.56
Cariboo	3,577,676.38	-	3,577,676.38	15,941,965.49	19,519,641.87
Central Fraser Valley	3,104,359.55	-	3,104,359.55	964,336.25	4,068,695.80
Chilliwack	4,029,694.29	-	4,029,694.29	1,783,567.65	5,813,261.94
Columbia River	592,114.95	-	592,114.95	4,373,091.44	4,965,206.39
Comox	2,220,377.13	-	2,220,377.13	9,221,416.90	11,441,794.03
Coquitlam-Moody	3,620,979.98	-	3,620,979.98	391,011.78	4,011,991.76
Cowichan-Malahat	509,559.88	-	509,559.88	4,153,659.46	4,663,219.34
Delta	54,632,126.93	-	54,632,126.93	969,703.09	55,601,830.02
Dewdney	3,877,638.93	-	3,877,638.93	2,602,359.70	6,479,998.63
Esquimalt-Port Renfrew	750,072.75	-	750,072.75	2,637,663.37	3,387,736.12
Kamloops	11,256,890.79	-	11,256,890.79	8,673,045.98	19,929,936.77
Kootenay	1,103,033.83	-	1,103,033.83	4,474,023.29	5,577,057.12
Langley	89,694.53	-	89,694.53	1,869,581.34	1,959,275.87
Mackenzie	591,150.12	-	591,150.12	6,910,830.64	7,501,980.76
Maillardville-Coquitlam	3,447,968.78	-	3,447,968.78	244,501.11	3,692,469.89
Nanaimo	393,496.92	-	393,496.92	6,388,529.06	6,782,025.98
Nelson-Creston	3,927,767.81	-	3,927,767.81	13,319,534.69	17,247,302.50
New Westminster	55,593,444.67	-	55,593,444.67	96,448.10	55,689,892.77
North Island	2,595,635.12	-	2,595,635.12	8,315,485.20	10,911,120.32
North Peace River	1,163,065.01	-	1,163,065.01	5,874,828.17	7,037,893.18
North Vancouver-Capilano	141,260.17	-	141,260.17	561,550.46	702,810.63
North Vancouver-Seymour	2,233,564.97	-	2,233,564.97	744,752.75	2,978,317.72
Oak Bay-Gordon Head	-	-	-	3,536.72	3,536.72

SUMMARY OF CAPITAL AND MAINTENANCE EXPENDITURES FOR ROADS, BRIDGES, FERRIES, LEGAL SURVEYS, RIGHTS-OF-WAY, PAVING, ETC. FISCAL YEAR 1984-85 (continued)

Electoral District	Vote 64 Highway Construction $	Vote 65 Hydro Development $	Total Capital $	Maintenance $	Total $
Okanagan North	3,022,883.77	-	3,022,883.77	5,487,591.74	8,510,475.51
Okanagan South	11,870,710.01	-	11,870,710.01	3,115,187.68	14,985,897.69
Omineca	3,431,607.01	-	3,431,607.01	9,195,131.95	12,626,738.96
Prince George North	4,707,395.23	-	4,707,395.23	2,702,641.67	7,410,036.90
Prince George South	6,529,606.47	-	6,529,606.47	9,485,534.78	16,015,141.25
Prince Rupert	6,456,722.09	-	6,456,722.09	3,065,958.07	9,522,680.16
Richmond	7,674,814.73	-	7,674,814.73	1,330,455.48	9,005,270.21
Rossland-Trail	263,053.48	-	263,053.48	3,251,350.45	3,514,403.93
Saanich and the Islands	2,170,232.92	-	2,170,232.92	2,624,978.44	4,795,211.36
Shuswap-Revelstoke	2,782,300.38	291,297.40	3,073,597.78	10,382,170.62	13,455,768.40
Skeena	8,220,691.82	-	8,220,691.82	7,901,794.85	16,122,486.67
South Peace River	9,782,253.92	-	9,782,253.92	7,496,743.72	17,278,997.64
Surrey	1,338,032.55	-	1,338,032.55	2,066,400.20	3,404,432.75
Vancouver Centre	7,814.79	-	7,814.79	417,188.98	425,003.77
Vancouver East	48,978.53	-	48,978.53	254,098.13	303,076.66
Vancouver-Little Mountain	-	-	-	-	-
Vancouver-Point Grey	-	-	-	260,898.09	260,898.09
Vancouver South	-	-	-	93,838.04	93,838.04
Victoria	45,535.32	-	45,535.32	-	45,535.32
West Vancouver-Howe Sound	14,903,247.50	-	14,903,247.50	3,597,587.52	18,500,835.02
Yale-Lillooet	124,328,984.37	-	124,328,984.37	12,667,930.38	136,996,914.75
Planning and Engineering Services, Headquarters	30,998,815.22	-	30,998,815.22	54,409,245.75	85,408,060.97
	408,630,214.85	291,297.40	408,921,512.25	257,787,191.09	666,708,703.34

HEADQUARTERS

HIGHWAY MAINTENANCE	$	$	$
Roads generally			
Project E-0067 - Traffic Engineering (Headquarters operations)		549,016.08	
E-0068 - Street lighting and traffic signals		1,613,272.69	
E-1773 - Automatic railway signal maintenance		395,823.94	
F-0041 - Leases and agreements		240,967.19	
F-0043 - Taxes		14,619.87	
F-0044 - Advertising and Publicity		13,786.01	
F-0048 - Damage claims		117,324.40	
F-0049 - Insurance re: trailer moves and household effects		26,413.00	
F-0051 - Miscellaneous		86,570.36	
F-0052 - Grants, engineering and dyking		112,385.95	
F-1802 - Reimbursement from union - leave without pay		152,519.95cr	
H-0060 - Highway signs operation (financing)		159,258.87cr	
M-0053 - Maintenance services generally(Headquarters operations)		216,873.31	
M-0055 - Avalanche control		414,883.69	
M-0056 - Scenic Highway Act		1,742.87	
M-2457 - Photocopier rental and operation charges		148,976.24	
M-2589 - Telecommunication charges-districts and regions		1,367,471.48	
M-2604 - Road maintenance-employee benefits		15,724,834.00	
T-1194 - Highways road maintenance -base occupancy charges		22,444,517.86	
T-1196 - Highways road maintenance -tenant improvement charges		386,219.56	
Z-1237 - Avalanche monitoring system		78,283.70	
Z-1240 - Maintenance management system		222,970.09	
Z-1241 - Shared equipment system		1,064,040.47	
Centreline marking		4,835,866.54	
Crushed gravel production		3,782,885.12	
Dock Engineering and Operations Unit (material sales exceeded district expenditures as a result of the decision to transfer to B.C.Ferry Corporation all work associated with repairs to docks and other installations)		423,625.17cr	
Electrical maintenance generally		2,379,872.21	
Intra-ministry material use credits		3,530,578.00cr	51,973,634.64
Bridges generally			
Project B-0069 - Bailey bridges		178,767.92	
B-2605 - Bridge maintenance-employee benefits		889,376.00	1,068,143.92
Ferries generally			
Project H-0061 - Ferries generally		651,041.04	
H-2606 - Ferry maintenance-employee benefits		3,079,917.00	
T-1198 - Highways ferries - base occupancy charges		307,601.06	
Z-1242 - Ferry management system		28,421.99	4,066,981.09
Machinery generally			
Project H-0063 - Machinery (headquarters maintenance and operations generally)		1,396,071.73	
H-0064 - Autoplan insurance		1,142,865.40	
H-0065 - Radio-mobile maintenance		1,226,047.72	

HEADQUARTERS (continued)

	$	$	$
Machinery generally (cont'd)			
Project H-0066 - Machinery replacement, motor vehicles		1,413,418.71	
H-1310 - Machinery and equipment replacement		4,330,228.77	
H-2607 - Machinery maintenance and operations-employee benefits		2,837,486.00	
Z-1243 - Equipment management system		132,985.97	
Z-1857 - Communications engineer		23,885.57	
Machinery maintenance and operations - Districts		40,989,006.92	
Intra-Ministry equipment rental credits		56,191,509.69cr	2,699,513.90cr
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Construction Branch:			
Project C-0089 - Construction generally		692,569.88	
C-0090 - Construction overhead		2,316,777.83	
C-2655 - Binwall storage and handling		69,461.07	
T-1202 - Base occupancy charges		15,126.57	
Z-1251 - Construction Branch system		19,226.67	3,113,162.02
Equipment Services Branch:			
Project H-0088 - Scientific and technical equipment		989,266.43	
H-0112 - Radio-mobile installations		556,456.20	
H-0115 - Equipment and machinery		929,901.89	2,475,623.52
Roadside Development and Landscape Branch:			
Project D-0004 - Headquarters research, contingencies, wages and general expenses	215,832.57		
-Rest area appliance stock distribution	38,935.00cr.	176,897.57	
D-0006 - Arterial Highway Beautification, Community Participation Program		7,731.82	184,629.39
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-0022 - Bridge steel		290,264.81cr.	
B-0281 - Bridge design and engineering services		3,075,604.87	
B-0739 - Bridge redecking, Trans Canada Highway and general highways		756,052.58	
Z-1252 - Bridge design system		62,795.28	3,604,187.92
Ferries Construction and Improvements:			
Project H-2603 - Ferries, construction and improvements-employee benefits			7,700.00
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals		940,207.97	
S-0086 - Paving generally		2,808,863.92	
S-0087 - Surveys and investigations		98.87	
T-1204 - Base occupancy charges		321,540.60	
Z-1858 - Paving Branch system		707.54	4,071,418.90
Planning and Engineering Services			
Geotechnical and Materials Engineering Branch:			
Project G-0107 - Geotechnical and materials engineering		7,413,967.76	
G-2336 - Rockwork and minor betterments		427,177.71	
G-2652 - Vehicle weights and dimensions test sections		56,378.41	
T-1206 - Base occupancy charges		830,408.90	
T-1207 - Tenant improvement charges		14,691.00	
Z-1246 - Geotechnical system		245,674.48	8,988,298.26

HEADQUARTERS (continued)

	$	$	$
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Runaway lanes for steep grades (study)	25,233.70		
-Staff training expenses	21,846.56		
-Surveys generally	2,847,973.10	2,895,053.36	
L-0111 - Archaeological explorations		176,802.08	
Z-1245 - Design and surveys system		649,834.08	3,721,689.52
Highway Planning Branch:			
Project O-0062 - Headquarters operations		1,904,027.91	
Z-1239 - Planning system		358,710.58	2,262,738.49
Highway Safety Branch:			
Project C-0207 - Highway safety measures, kilometer reference marker project		3,847.00	
C-0209 - Highway safety measures, general expenses		153,895.12	
Z-1229 - Safety Engineering system		98,251.38	255,993.50
Information Systems Branch:			
Project Z-1244 - Evaluation of data processing needs			423,131.31
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-General expenses			65,613.44
Traffic Branch:			
Project E-0003 - Signs, signals and traffic control			1,368,737.13
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2800			
-Headquarters Branch salaries, travel etc., excluding right-of-way settlements			321,524.24
Municipal Programs Branch:			
Amalgamation Grants			
Project O-1835 - Municipal programs operations, salaries, travel, etc.,excluding secondary highway projects			134,367.58
Total, Headquarters			$85,408,060.97

ALBERNI ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,831,160.83
Snow removal			405,695.24
Bridge maintenance			127,944.72
Ferry maintenance and operations-Barkley Sound Ferry Subsidy			253,000.00
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0542 - Beaver Creek Road, reconstruct and pave		30,000.00	
C-2856 - Bamfield Road, miscellaneous repairs and culvert		21,637.80	
N-0397 - Guardrail installation		1,298.96	52,936.76

ALBERNI ELECTORAL DISTRICT (continued)

	$	$	$
Construction Branch:			
Project C-3989 - Port Alberni to Cumberland, Forest Road (see also Comox)			4,280.05
Bridges and Ferry Landings:			
Day Labour			
Project B-2281 - Port Albion Bridge, abutments, stringers and wood deck		50,000.00	
B-2755 - Wally Bridge, new log stringer and timber deck		39,923.27	
B-2756 - Brayden Bridge, new log stringer and timber deck		39,528.57	129,451.84
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Minor road surveys		3,946.67	
-Qualicum Bypass (4 lane)		867.00	
-Various along Alberni-Tofino Highway (Hwy.4), site plans for bridges, Canoe Creek, Maureen, Forster, and Mercer		105,773.23	110,586.90
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Bamfield Road right-of-way through part of SW 1/4 Sec.20 and NW 1/4 Sec.17 Tpl, Barclay District		60.00	
-Plan of subdivision of part of Block 56, Nanoose District, Kaye Road Pit		300.00	360.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2806			
-Brady's Beach Trail		7,450.00	
-Port Albion Road		250.00	7,700.00
Municipal Programs Branch:			
Amalgamation Grants			
Project O-2951 - District of Tofino, road maintenance grant			15,000.00
Total, Alberni Electoral District			$2,938,116.34

ATLIN ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,421,599.34
Snow removal			1,930,373.49
Bridge maintenance			461,122.07

HIGHWAY CONSTRUCTION AND IMPROVEMENTS

	$	$	$
Roads:			
Day Labour			
Project N-0390 - Guardrail installation		30,000.00	
N-0392 - Guardrail installation		3,191.88	
N-0394 - Guardrail installation		1,400.69	34,592.57

ATLIN ELECTORAL DISTRICT (continued)

	$	$	$
Bridges and Ferry Landings:			
Day Labour			
Project B-1436 - Ritchie Creek Bridge, construct replacement		209,800.33	
B-2750 - Hanna Creek Bridge, substructure and install E-Z bridge		275,199.67	
B-2751 - Tahltan River Bridge, reconstruction		55,000.00	
B-2754 - Greenville access road, install two bailey bridges		64,916.51	604,916.51
Bridge Branch:			
Project B-0557 - Bear River Bridge, Highway 37A		1,529.82	
B-1102 - Greenville Bridge over Nass River		1,803,556.88	
B-1402 - Surprise Creek Bridge and Cullen Creek Bridge, Stewart-Cassiar Highway 37A		28,787.00	
B-1706 - Cottonwood River Bridge on Cassiar Highway 37		544.66	
B-1715 - Bear River Bridge and Bitter Creek Bridge, Stewart-Cassiar Highway 37A		28,787.00	1,863,205.36
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals, (a) Highway 37, Blue River Bridge to Yukon Boundary (b) Highway 37 from North Fort Creek to Good Hope Lake Highways Camp		859,844.88	
S-1705 - Highway 37, Kitwancool-north, Kitwancool accesses (see also Skeena)		18,028.75	
S-1752 - Highway 37, Nass River to Hanna Corner,and Highway 37A (Stewart-Meziadin Highway), Meziadin Junction to Surprise Creek		1,724,879.82	2,602,753.45
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Aiyansh Junction-Greenville		3,025.94	
-Stewart to Cassiar, site plans for miscellaneous bridges on Stewart Cassiar Highway		8,981.10	
-Terrace to Nass River Road, Cedar River to Tseax junction (see also Skeena)		94,012.21	106,019.25
Total, Atlin Electoral District			$11,024,582.04

BOUNDARY-SIMILKAMEEN ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,984,936.60
Snow removal			1,984,068.81
Bridge maintenance			271,419.66

BOUNDARY-SIMILKAMEEN ELECTORAL DISTRICT (continued)

HIGHWAY CONSTRUCTION AND IMPROVEMENTS	$	$	$
Roads:			
Day Labour			
Project C-2846 - Martin Street, Arterial 638R, between Westminster Ave. and Wade St., replace storm drain		26,000.00	
C-2892 - Camp McKinney Road, upgrade and relocate		457,386.06	
C-2894 - Camp McKinney Road, construct 2.2 km on new alignment		264,000.00	
D-1553 - Rest area upgrading		9,997.63	
N-0377 - Guardrail installation		108,726.13	
N-0383 - Guardrail installation		30,000.00	
W-0348 - Fencing Schedule 2 Highways		26,380.00	
W-0352 - Fencing Schedule 2 Highways		74,775.02	997,264.83
Construction Branch:			
Project C-1744 - Highway 97, Penticton Channel Parkway, Stage 2, paving, curb and gutter, and storm drains			1,192,884.01
Bridges and Ferry Landings:			
Day Labour			
Project B-1500 - Kettle River Bridge, repair Howe truss		20,000.00	
B-2293 - Ashnola Bridge, pier repairs		19,085.62	
B-2718 - Sheep Creek Bridge, construct box beam bridge		1,063.27	
B-2726 - Cooper Bridge, repair Howe truss		7,450.00	
B-2727 - Cochrane Bridge, repair		12,250.00	
B-2728 - Ingram Bridge, repair curb		10,000.00	
B-2729 - Upper Williamson Bridge, repair		10,000.00	
B-3012 - Blythe Bridge and Kettle River, material purchase		15,300.00	
B-3014 - Upper and Lower Testalinda Bridge, reconstruction		24,996.20	120,145.09
Bridge Branch:			
Project B-0735 - Eckhardt Avenue Bridge improvements, Penticton		63,592.50	
B-2395 - Penticton Parkway Underpass, Highway 97		511,699.71	575,292.21
Paving Branch:			
Project S-0086 - Paving Generally		13,945.93	
S-0087 - Surveys and Investigations		913.94	14,859.87
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Attwood Bridge site plan, Grand Forks		11,893.37	
-Minor road surveys		34,195.59	
-Old Wooden Bridge, Highway 97, 4 miles north of Oliver		766.47	
-Penticton Channel Parkway		45,750.07	
-Penticton to Trout Creek		822.57	
-Southern Trans Provincial Highway, Hedley-Keremeos		9.63	
-Summerland to Deep Creek		4,083.32	
-Trout Creek Hill to Summerland		12,271.87	109,792.89

BOUNDARY-SIMILKAMEEN ELECTORAL DISTRICT (continued)

	$	$	$
Highway Safety Branch:			
Project C-0204 - School Route Improvements, West Bench Elementary school, shoulders and paint edgelines		32,000.00	
C-0205 - General Safety Works, Highway 3, left turn slot west of Midway and move existing access to improve sight distance, Pope and Talbot Sawmill		24,885.98	56,885.98
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Plan of subdivision to consolidate old road right-of-way with Lots 32 and 53, Plan 726 D.L.499 S.D.Y.D.		151.50	
-Princeton-Summerland Road 40, W.Bdy., D.L.2075 to E.Bdy., D.L. 4163, K.D.Y.D. 2.5 km +-		12,206.47	12,357.97
Traffic Branch:			
Project E-2870 - Greenwood Arterial (Cooper Street) Deadwood Street to Louisa Street, Greenwood, lighting installation			25,046.19
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2802			
-Camp McKinney Road	5,430.00		
-Highway 97, MacAlpine Bridge - Vaseaux Lake	170.00		
-Okanagan Highway 97	32,984.00		
-Parson's Road	22,175.00		
-Partridge Road	4,024.80		
-Southern Trans Provincial Highway 3 - Copper Mountain	12,019.35		
-Southern Trans Provincial Highway 3, Hedley - Keremeos	210,644.76	287,447.91	
P-2803			
-Bosovich Road 129	1.00		
-Boundary Creek Road 7	518.00		
-Brown Creek Road 84	1.00		
-Bubar Road 113	448.00		
-Crowsnest Highway 3	2,997.00		
-Hulme Creek Road 217	1,394.37		
-Kettle River East Road 42	2,332.00		
-Kimura Road	1.00		
-Morey Road 232	1.00		
-North Fork Road 30	7,362.00		
-Rock Creek	30.82	15,086.19	302,534.10
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-1178 - 135B, Naramata Road, City of Penticton			135,524.00
Total, Boundary-Similkameen Electoral District			$9,783,012.21

BURNABY-EDMONDS ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,299,270.21
Snow removal			48,159.52
Bridge maintenance			16,965.80

BURNABY-EDMONDS ELECTORAL DISTRICT (continued)

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project W-0793 - Fencing Schedule 2 Highways			36,250.00
Construction Branch:			
Project C-1121 - Fraser River Crossing (Annacis Island), Marine Way, Byrne Road to north end of Queensborough Bridge,(see also New Westminster)			
-Grade construction	540,979.96		
-Wick drain	10,307.68	551,287.64	
C-2681 - Fraser River Crossing (Annacis Island), Marine Way, Greenall-Queensborough Bridge, gravelling and paving (see also Burnaby-Willingdon and New Westminster)		293,764.79	845,052.43
Paving Branch:			
Project S-1754 - Trans Canada Highway 1, Capilano Bridge to east of Port Mann Bridge (see also Maillardville-Coquitlam)			3,057.70
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-From Edmonds Street to 10th Avenue,for new curb and gutter construction		1,665.93	
L-0558 - Fraser River Crossing (Annacis Island), Byrne to Queensborough Bridge		22,730.37	24,396.30
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-0741 - 14B, North Road (w.half) District of Burnaby			190,191.32
Total, Burnaby-Edmonds Electoral District			$3,463,343.28

BURNABY NORTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			179,939.39
Snow removal			24,039.01
Bridge maintenance			428.45
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Barnet Highway from Sperling Avenue to Clarke Road (see also Coquitlam-Moody)			4,594.82
Total, Burnaby-North Electoral District			$209,001.67

BURNABY-WILLINGDON ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			187,445.39
Snow removal			25,016.87
Bridge maintenance			12,456.45
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project W-0793 - Fencing Schedule 2 Highways			36,250.00
Construction Branch:			
Project C-2681 - Fraser River Crossing (Annacis Island), Marine Way, Greenall-Queensborough Bridge, gravelling and paving (see also Burnaby-Edmonds and New Westminster)			97,921.59
Paving Branch:			
Project S-0086 - Paving Generally		242,984.90	
S-0087 - Surveys and Investigations		39,872.36	282,857.26
Total, Burnaby-Willingdon Electoral District			$641,947.56

CARIBOO ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			9,355,619.01
Snow removal			5,869,312.46
Bridge maintenance			563,807.34
Ferry maintenance and operations-			
Big Bar Ferry		66,999.06	
Marguerite Ferry		86,227.62	153,226.68
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-2836 - Stanchfield Rd.,construction		75,729.90	
C-2857 - Highway 97, Frontage Road, construction		169,870.60	
D-0010 - Rest area upgrading		9,853.74	
D-1553 - Rest area upgrading		4,489.95	
N-0380 - Guardrail installation		15,360.00	
N-0430 - Guardrail installation		5,919.45	
N-0435 - Guardrail installation		19,547.00	
W-0351 - Fencing Schedule 2 Highways		81,606.49	
W-0357 - Fencing Schedule 2 Highways		83,357.46	
W-0362 - Fencing Schedule 2 Highways		124,992.40	590,726.99
Construction Branch:			
Project C-1710 - Cariboo Highway 97,North Star Interchange, Quesnel, construction		992,303.19	
C-3479 - Morehead Lake Spillway, design and reconstruct		4,240.88	
C-4176 - Highway 24, Bridge Lake to Little Fort,reconstruction		10,193.21	1,006,737.28

CARIBOO ELECTORAL DISTRICT (continued)

	$	$	$
Bridges and Ferry Landings:			
Day Labour			
Project B-2742 - Beavermouth Bridge,replace		139,886.19	
B-2749 - Kleena Kleene Bridge,replace		119,990.85	
B-2778 - Churn Bridge,replace bailey with steel beams		116,331.21	376,208.25
Bridge Branch:			
Project B-1115 - Baker Creek Bridge, Marsh Drive, Quesnel,improvements and widening			5,863.71
Paving Branch:			
Project S-0084 - Miscellaneous surface seals,			
-Highway 97 from 150 Mile House to Highway 20 Junction at Williams Lake	367,339.05		
-Highway 97 from Highway 26 Junction(Barkerville Rd.) at Quesnel,North to the Quesnel Highway District Boundary	129,719.66		
-Kelly Lake Road, Clinton	185,297.09	682,355.80	
S-0086 - Paving generally		3,749.43	
S-0087 - Surveys and investigations		155,947.86	
S-1764 - Chilcotin Highway 20, 81.8 km to 112.3 km, Alexis Creek miscellaneous streets		350.90cr	
S-2695 - Highway 97, 108 Mile Airport, pave		160.00	841,862.19
Planning and Engineering Services			
Geotechnical and Materials Engineering Branch:			
Project G-2946 - Cariboo Highway 97, Mile 83 - 100, relocation			46,044.90
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-150 Mile House,curve realignment		30,798.01	
-Cariboo Highway 97, 92 Mile House to 83 Mile House		98,810.39	
-Clinton, underpass and approaches		22,737.83	
-Comer to Weldwood, access on Mackenzie Avenue; Glendale Drive, curb and gutter		61,978.14	
-Highway 20, Bella Coola Valley		917.07	
-Highway 20, Redstone to Tatla Lake		24,700.29	
-Kleena Kleene, Gazette Survey		1,652.61	
-Little Fort-Lac Des Roches (see also Kamloops)		21,067.81	
-North Star interchange,Quesnel		2,080.25	
-Quesnel bypass		111,645.35	
-Poquette Lake near Likely to Cariboo Lake east of Keithley Lake		10,684.25	
-Williams Lake,Fox Mountain Road		1,390.61	388,452.61
Highway Safety Branch:			
Project C-0203 - Highway Safety Measures, intersection improvements,			
-Soda Creek - MacAlister Road, reconstruct intersection of Highway 97 with left turn slot		19,666.56	
C-0204 - School Route improvements,			
-Horsefly Road, widen shoulders for pedestrians	3,922.49		
-Horsefly to Quesnel Lake Road, bury culvert and fill ditch	4,000.00		
-Maple Drive, shoulder widening	30,000.00	37,922.49	57,589.05

CARIBOO ELECTORAL DISTRICT (continued)

	$	$	$
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-1. N.Bonaparte Road and Eagan Lake Road, in D.L.'s 1884, 1897,1883 and 1396 2. Knight Lake Road, in D.L.'s 1883, 1490 and 4973, Lillooet District		250.00	
-Cariboo Highway, Two Mile Flat, Quesnel, through D.L.5014, Cariboo District		17.00	
-Chilcotin - Bella Coola Highway 20 (1) E.Bdy.D.L.559, S.Bdy.D.L.1358 (2) N.Bdy.D.L.216 E.Bdy.D.L.382,R2, Cariboo District		852.50	
-Fox Mountain Road, Cariboo Highway to S.Bdy.L.8876, Cariboo District		3,605.41	
-Knife Creek Road 349, Cariboo Highway to N.Bdy.remainder S.E.1/4, Section 8, Township 41, Cariboo District		8,205.00	
-Loon Lake Road 128, Cariboo Highway to S.Bdy.D.L.41, Lillooet District		4,060.10	
-Nazko Road 59, W.Bdy.D.L.2140 to N.Bdy.D.L.2131,Cariboo District		23,377.00	40,367.01
Traffic Branch:			
Project E-2310 - Route 97 at North Star Road Interchange, Quesnel, lighting installation		17,708.42	
E-2434 - Canim Lake Road, 100 Mile House, pedestrian underpass lighting installation		5,955.77	
E-2708 - Route 97 (Front Street) at Shepherd Ave.,Quesnel,pedestrian signal and lighting installation		20,348.50	44,012.69
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2802			
-Horse Lake Road	13,640.00		
-Johnstone Road 438	36,000.00		
-Loon Lake Road 128	6,400.00		
-Mile 100 - Buffalo Creek Road 372	1.00		
-Ruth Lake Road	3,705.05	59,746.05	
P-2804			
-Anahim's Meadow Road 1151	219.04		
-Barkerville Highway 26,Mitchell Bridge elimination	83.40		
-Blackwater Road 58	1.00		
-Bouchie Lake Road 91	200.00		
-Buck Ridge Road 612	288.00		
-Cariboo Highway 97	2.00		
-Cariboo Highway 97, North Star Road, Maple Drive	620.06		
-Chilcotin - Bella Coola Highway 20	1,102.50		
-Dog Creek Road 137	1,736.00		
-Draeger Road 733	1,816.50		
-Fox Mountain Road 381	2,015.00		
-Fraser Road 32	20,614.00		
-Gravel Pits	1,535.66		
-Grevatt Road 112	2.00		
-Hardscrabble Road 776	1.00		
-Harris Road 780	998.40		
-Highway 20, Bull Canyon to Red Stone West	512.08		
-Hill Road 14	3,494.51		
-Horsefly Lake Road 421	.50		
-Jessica Lake Road 674	5,225.00		
-Keithley Creek Road	1,392.75		
-Lemon Lake Road 435	.50		
-Little Lake - Quesnel River Road 639	2,337.50		

CARIBOO ELECTORAL DISTRICT (continued)

	$	$	$
Property Services Branch (continued):			
Rights-of-way and Property Purchases			
Project P-0113			
-Marsh Drive	2.00		
-Milburn Lake Road 189	358.36		
-Nazko Road 59	10,752.88		
-Paradise Road 25	63.00		
-South Lakeside Drive 352	1,000.00		
-Stanchfield Road 888	9,978.29		
-Stum Lake Road	821.60		
-Sword Road 648	27,070.00		
-Wells Road 237	1.00		
-Woodpecker Landing Road 194	1.00	94,225.62	153,971.67
Municipal Programs Branch:			
Amalgamation Grants			
Project O-1693 - City of Williams Lake, Glendale restructuring grant			25,840.03
Total, Cariboo Electoral District			$19,519,641.87

CENTRAL FRASER VALLEY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			542,576.07
Snow removal			379,430.80
Bridge maintenance			42,329.38
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project W-0792 - Fencing Schedule 2 Highways			40,500.00
Construction Branch:			
Project C-1777 - Beck Road Bypass,Highway 11,			
-construction	1,242,120.38		
-gravelling and paving, Stage 1	278,778.43	1,520,898.81	
C-2872 - Coquihalla Highway, Abbotsford-Hope Section, Whatcom interchange, grading		41,716.37	1,562,615.18
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-2349 - Old Yale Road underpass, Highway 11			89,045.09
Paving Branch:			
Project S-0086 - Paving Generally		22,917.52	
S-0087 - Surveys and investigations		66,002.90	88,920.42
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Miscellaneous "C" Street interchange to Lougheed, Mission (see also Dewdney)	30,543.73		
-Sumas River South Frontage Road from Abbotsford to Vedder Canal	47,859.11		
-Trans Canada Highway, Whatcom Road interchange	2,610.01	81,012.85	

CENTRAL FRASER VALLEY ELECTORAL DISTRICT (continued)

	$	$	$
Planning and Engineering Services (continued)			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
L-2696 - Coquihalla Highway, Abbotsford-Hope Section, Whatcom Road interchange, design		143,663.66	224,676.51
Traffic Branch:			
Project E-2324 - Route 7 (Hurd Road) at New Route 11, Mission, electrical conduit and junction box installation		76,726.67	
E-2460 - Route 11 at Marshall Road, Abbotsford, traffic signal revision and lighting installation		19,713.20	96,439.87
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2801			
-Abbotsford "C" Street-MacLure (via Beck)		970,606.75	
-Bourne Road 201		1,547.69	
-Trans Canada Highway, Abbotsford to Vedder Crossing		77.87	
-Trans Canada Highway, Abbotsford-Mt. Lehman		780.99	
-Trans Canada Highway, Whatcom Interchange		19,950.00	992,963.30
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-0712 - 186B, South Fraser Way, District of Matsqui			9,199.18
Total, Central Fraser Valley Electoral District			$4,068,695.80

CHILLIWACK ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			998,938.46
Snow removal			702,022.57
Bridge maintenance			82,606.62
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project D-1552 - Rest area Upgrading		6,284.50	
N-0371 - Guardrail Installation		21,067.00	
W-0792 - Fencing Schedule 2 Highways		6,500.00	33,851.50
Construction Branch:			
Project C-2873 - Coquihalla Highway, Abbotsford-Hope Section, Popkum Interchange, grading		111,924.46	
C-2906 - Coquihalla Highway, Abbotsford-Hope Section, Wahleach Power Station-Cheam View, grading and paving		995,205.02	
C-2907 - Coquihalla Highway, Abbotsford-Hope Section, Cheam View to Jones Creek,grading and paving		1,453,352.55	2,560,482.03

CHILLIWACK ELECTORAL DISTRICT (continued)

	$	$	$
Roadside Development and Landscape Branch:			
Project D-2893 - Expo 86, promotional floral displays (6 sites)(see also Delta and Surrey)			40,539.24
Bridges and Ferry Landings:			
Day Labour			
Project B-2443 - Morris Valley Bridge, reconstruct			75,000.00
Bridge Branch:			
Project B-1716 - Gibson Road Underpass, Trans Canada Highway 1			788,815.03
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Cheam Street in Agassiz, curb and gutter, Pioneer to Highway 9	103.33		
-Trans Canada Highway Gibson Road and Annis Road (underpasses)	32,038.06		
-Trans Canada Highway, Vedder Road interchange	1,051.00	33,192.39	
L-2696 - Coquihalla Highway,			
-Abbotsford-Hope Section, Popkum Road interchange, design	265,353.09		
-Hope-Merritt Section, Barrowtowne-Vedder interchange on Trans Canada Highway	111,812.35	377,165.44	410,357.83
Highway Safety Branch:			
Project C-0202 - Roadside Hazard Elimination,			
-Striker's Corner, fill west ditch along sections of Harrison Hot Springs Road		8,469.40	
-Upgrading Bridge abutments		6,842.55	15,311.95
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Lundgren Road 101 through part of LS14 Plan 38134 NW 1/4 Sec.19 Tp21 NWD		2,400.00	
-Reposting of Silver Skagit Road through Lots 1607 and 1093 within Section 5, Tp.5 Range 26, W6M		950.00	3,350.00
Traffic Branch:			
Project E-2642 - Clearbrook Road at Marshall Road diversion, Matsqui (Clearbrook), signal installation and lighting revision			21,657.71
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2801			
-Agassiz-Rosedale Highway and Yale Road		1.00	
-Trans Canada Highway, Gibsons Road Underpass		55,328.00	55,329.00
Municipal Programs Branch:			
Amalgamation Grants			
Project O-2801 - District of Chilliwack, grant to improve arterial Highway 752R Yale Road West			25,000.00
Total, Chilliwack Electoral District			$5,813,261.94

COLUMBIA RIVER ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,886,313.35
Snow removal			1,253,122.94
Bridge maintenance			233,655.15
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project N-0387 - Guardrail installation		53,998.52	
W-0353 - Fencing Schedule 2 Highways		1,739.00	
W-0355 - Fencing Schedule 2 Highways		19,997.75	75,735.27
Bridges and Ferry Landings:			
Day Labour			
Project B-2736 - Channel Bridge, replace			74,432.75
Bridge Branch:			
Project B-2777 - Athalmer Stairway,Athalmer -Invermere Road, construction			8,377.58
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals, -Windermere to Canal Flats		18,150.16	
S-2862 - Invermere area paving		191,008.08	209,158.24
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Fort Steele-Bull River		18,623.86	
-Highway 93 Radium Junction, Park Gate Station		1,148.75	
-Highway 93/95, left turn slots		1,831.75	
-Kootenay-Columbia		39.00	
-Kootenay-Columbia Highway, Golden Bypass		14,030.36	
-Minor road surveys		1,010.00	
-Radium Hot Springs		9,896.11	
-Trans Canada Highway, Golden-Yoho Bridge		30,717.59	
-Village of Invermere, 6th Street connection		9,679.69	86,977.11
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Plan of road closure and road consolidation,Radium Junction in Lot 1,Plan 5255,D.L.2580 and part of old road within Plan 5393, Kootenay District			1,888.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2803			
-Dorney Road 85		157.00	
-Flemstrom Road 60		2,582.60	
-Golden-Donald Upper Road 42		1,616.00	
-Hartley Road 39		200.00	
-Holmes-Deakin Road 365		17.00	
-Joinson Road 318		428.00	
-Kootenay-Columbia Highway 95, Radium intersection		82,600.00	
-Lazy Lake Road 32		7,089.40	
-Thomason Road 315		645.00	
-Younger Road 292		201.00	95,546.00

COLUMBIA RIVER ELECTORAL DISTRICT (continued)

	$	$	$
Municipal Programs Branch:			
Amalgamation Grants			
Project O-1740 - Village of Invermere, municipal restructure grant			40,000.00
Total, Columbia River Electoral District			$4,865,206.39

COMOX ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,062,082.86
Snow removal			644,787.36
Bridge maintenance			115,610.88
Ferry maintenance and operations-			
Comox-Powell River Ferry (see also MacKenzie)		2,751,989.25	
Denman Island Ferry		1,594,455.09	
Hornby Island Ferry		858,491.46	
Lasqueti Island Ferry subsidy		194,000.00	5,398,935.80
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Construction Branch:			
Project C-3989 - Port Alberni to Cumberland, Forest Road (see also Alberni)			4,280.05
Bridges and Ferry Landings:			
Day Labour			
Project B-2285 - Brown's River Bridge, replace with new logs			33,464.62
Paving Branch:			
Project S-0086 - Paving Generally	4,444.82		
-Minto, Fraser,and Royston Roads	91,082.58		
-Parksville area miscellaneous roads	186,760.60	282,288.00	
S-0087 - Surveys and Investigations		164,358.59	
S-1742 - Highway 19, Island Highway, Courtenay to Black Creek Bridge and miscellaneous roads		1,452,991.28	1,899,637.87
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Coleman Road - Lazo Road		2,418.67	
-Courtenay Arterial, Embleton Road to 21st Street,curb and gutter		1,394.71	
-Island Highway from Parksville, curb and gutter		1,363.05	
-Minor road surveys		49,885.93	
-Vancouver Island Highway, Parksville Bypass		182.78	55,245.14
Highway Safety Branch:			
Project C-0204 - School Route Improvements, -Areas of high school pedestrian traffic		24,502.00	
C-0205 - General Safety Works, -Small amount of special fencing for Nanoose Bridge		1,387.00	25,889.00

COMOX ELECTORAL DISTRICT (continued)

	$	$	$
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Dove Creek Road through part of Section 32 and 29, Comox District		2,000.00	
-Island Highway through amended Lot 13 of D.L.6 Plan 1023 Newcastle District		566.80	
-Ryan Road through part Lot 7, Plan 2280 D.L.114, Comox District		400.00	2,966.80
Traffic Branch:			
Project E-2191 - Route 19, Vanier Drive to Endall Road/Fairview Road, Courtenay, lighting installation		14,170.65	
E-2956 - Little River Ferry Terminal, upgrade and repair power system		2,400.00	16,570.65
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2806			
-Courtenay 17th Street Crossing Cliffe Avenue to Dingwall Road		57,442.46	
-Forbidden Plateau Road		5,000.00	
-Gage Road		4,000.00	
-Headquarters Road 10		1.00	
-Island Highway 19		525.15	
-Island Highway 19 - Courtenay North		6,142.06	
-Island Highway 19 and Columbia Drive 374		1.00	
-Marsden Road, widening		2.00	
-Muirs Road		1,680.00	
-Parksville/Qualicum Bypass		35,000.00	
-Piercy Road 129		2,000.00	
-Rodger Road 134		4,471.33	
-Shawn Road 2637		4,864.00	
-We-Way (Green) Road		52,831.00	173,960.00
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-1135 - 274B, Royston Road, Dunsmuir Avenue and Suttons Road, Village of Cumberland			8,363.00
Total, Comox Electoral District			$11,441,794.03

COQUITLAM-MOODY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			299,056.47
Snow removal			61,279.13
Bridge maintenance			30,676.18
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Construction Branch:			
Project C-1743 - Mary Hill Bypass, Cape Horn to Pitt River			3,288,342.69

COQUITLAM-MOODY ELECTORAL DISTRICT (continued)

	$	$	$
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1374 - Colony Farm Overhead, Cape Horn to Pitt River Highway		19,809.78	
B-2387 - Coquitlam River Bridge, Mary Hill Bypass		229.70	20,039.48
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Barnet Highway from Sperling Avenue to Clarke Road (see also Burnaby North)		2,474.13	
-Lougheed Highway from Cape Horn Interchange to Port Coquitlam (Kingsway Avenue)		2,727.00	5,201.13
Traffic Branch:			
Project E-1570 - Route 7 at Colony Farm Overhead, Coquitlam, lighting installation		30,943.33	
E-1762 - Mary Hill Bypass, Port Coquitlam, lighting installation		35,406.00	
E-2384 - Route 7 at United Way (Lougheed Highway Connector), Coquitlam, lighting installation		1,785.00	
E-2423 - Route 7 at Coast Meridian, Coquitlam, signal and lighting revision		1,843.07	
E-2430 - Route 7, Cape Horn Interchange to Colony Farm Road, Coquitlam, lighting installation		121,231.02	
E-3002 - Route 7A at Kyle Street, Port Moody, traffic signal revision		10,080.00	201,288.42
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2801			
-Lougheed Highway, Essondale to Barnet Highway			45,527.95
Municipal Programs Branch:			
Amalgamation Grants			
Project O-0894 - Village of Belcarra			60,580.31
Total, Coquitlam-Moody Electoral District			$4,011,891.76

COWICHAN-MALAHAT ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,323,350.63
Snow removal			428,867.04
Bridge maintenance			160,984.50
Ferry maintenance and operations-Thetis Island Ferry			1,240,457.29
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project W-0365 - Fencing Schedule 2 Highways			14,000.00

COWICHAN-MALAHAT ELECTORAL DISTRICT (continued)

	$	$	$
Construction Branch:			
Project C-1842 - Trans Canada Highway 1, Koksilah Road, Duncan, 4 laning			15,795.82
Bridges and Ferry Landings:			
Day Labour			
Project B-2761 - Abernathy Bridge, reconstruct with piling, steel stringers, and timber deck		71,999.11	
B-2763 - Harvey Bridge, replace logs with steel stringers		12,794.07	
B-2962 - Edam Bridge, reconstruct		22,892.99	107,686.17
Bridge Branch:			
Project B-1332 - Koksilah River Bridge, Trans Canada Highway, 2 miles south of Duncan		25,473.05	
B-1734 - Koksilah pedestrian overpass, Trans Canada Highway		15,351.62	40,824.67
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Four laning with left turn slot in the vicinity of D.L.75		81,240.82	
-Mill Bay-Cowichan Golf Course		23,821.45	
-Minor road surveys		92,584.92	197,647.19
Highway Safety Branch:			
Project C-0204 - School Route Improvements,			
-Old Lake Cowichan by Gibbons, shoulder widening for high school		6,000.00	
-Youbou Road, widen shoulder by culverting ditch and provide walkway for school children		8,000.00	14,000.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Plan of reserve over unsurveyed portion of section 1, Range 5, Quamichan District Rock Quarrying site		1,300.00	
-Through west 40 acres of Section 11, Range 8, Shawnigan District, Chapman Road		875.00	2,175.00
Traffic Branch:			
Project E-2421 - Route 1A at Cowichan Bay Road/Cobble Hill Road, Duncan area and Route 1 at Cobble Hill, Kilmalu Road, Mill Bay area, traffic signal and lighting installation		74,459.03	
E-2855 - Trunk Road at Canada Avenue, Duncan, signal and lighting replacement		19,372.00	93,831.03
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2806			
-Chemainus Ferry Terminal		13,600.00	
-Parker Road		10,000.00	23,600.00
Total, Cowichan-Malahat Electoral District			$4,663,219.34

DELTA ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			812,112.08
Snow removal			82,384.57
Bridge maintenance			75,206.44
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Construction Branch:			
Project C-1583 - Fraser River Crossing (Annacis Island), test fill		138,974.64	
C-1584 - Fraser River Crossing (Annacis Island), Nordel Interchange,			
-Hog fuel supply contract	1,911,055.97		
-Purchase of hog fuel	1,987,877.96	3,898,933.93	
C-1593 - Fraser River Crossing (Annacis Island),Highway 99 to Queensborough Bridge, pier protection works and dredging (see also New Westminster)		730,391.81	
C-2410 - Fraser River Crossing (Annacis Island),Highway 99 to Queensborough Bridge, Lulu Island, dredging contract(see also New Westminster and Richmond)		593,005.64	
C-2451 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, L-Line grading Sta.169 to Sta.175+20		71,526.00	
C-2494 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Mainline: Nordel Overpass to South abutment, construction		269,983.30	
C-2495 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge,84th Connector, construction		523,751.03	
C-2550 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, Sta. 165+00, B.C.Hydro Tower relocation		103,000.00	
C-2617 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, 84th and 72nd Avenues, wick drain construction		222,014.27	
C-2620 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge,Nordel to 64th Avenue, mainline construction		1,795,287.08	
C-2679 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge,supply of dredged material(contract 7)		6,120,533.56	
C-2680 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge,supply of dredged material(contract 8) (see also Richmond)		1,573,291.69	
C-2682 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, 64th Interchange, grading		71,805.50	

DELTA ELECTORAL DISTRICT (continued)

	$	$	$
Roads (continued):			
Construction Branch:			
Project C-2689 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, 64th - 10th, including B.N.I.relocation		4,623,373.09	
C-2770 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, 72nd Avenue approach fill, grading		70,562.41	
C-2786 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, Highway 99-Highway 10, B.N.I. and B.C.R. relocation grade construction		1,494,692.40	
C-3005 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, Highway 10-Highway 99,preparatory grading		39,221.12	22,340,347.45
Roadside Development and Landscape Branch:			
Project D-2893 - Expo 86, promotional floral displays (6 sites)(see also Chilliwack and Surrey)			40,539.24
Bridges and Ferry Landings:			
Day Labour			
Project B-2715 - George Massey Tunnel, fan structure repair (see also Richmond)			13,431.00
Bridge Branch:			
Project B-0895 - Fraser River Crossing (Annacis Island), main span (see also New Westminster)		16,159,496.21	
B-2444 - Fraser River Crossing (Annacis Island),insurance premiums (see also New Westminster)		256,662.00	
B-2636 - Fraser River Crossing (Annacis Island), Annacis Bridge south approach S3-S23		8,405,256.40	
B-2795 - Fraser River Crossing (Annacis Island), Nordel Underpass		22,192.11	
B-2796 - Fraser River Crossing (Annacis Island), 84th Avenue B.N.R. Overhead		167,762.35	
B-2799 - Fraser River Crossing (Annacis Island), 64th Avenue Underpass and B.N.R. Overhead		266,394.00	
B-2929 - Fraser River Crossing (Annacis Island), 72nd Avenue B.N.R. Overpass		76,806.87	25,354,569.94
Planning and Engineering Services			
Geotechnical and Materials Engineering Branch:			
Project G-0038 - Fraser River Crossing (Annacis Island), geotechnical investigations (see also New Westminster and Richmond)			399,751.45
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Miscellaneous Roberts Bank Railway crossings	9,948.85		
-Scott Road from Highway 1 to Highway 10 (see also Surrey)	19,478.52		
-Scott Road, Old Yale Road to 96th Avenue (see also Surrey)	10,850.97	40,278.34	
L-0658 - Fraser River Crossing (Annacis Island), south side of Fraser River to Highway 99		576,511.97	616,790.31

DELTA ELECTORAL DISTRICT (continued)

	$	$	$
Highway Safety Branch:			
Project C-0202 - Roadside Hazard Elimination, -Metal barrier protection of Freeway Bridge piers (see also Surrey)			16,676.70
Highway Planning Branch:			
Project O-1188 - Fraser River Crossing (Annacis Island),project study and preliminary design planning (see also New Westminster)		16,851.91	
O-2419 - Fraser River Crossing (Annacis Island), relocation of Burlington Northern Railway		10,649.85	27,501.76
Traffic Branch:			
Project E-2447 - Scott Road at 96th,Surrey /Delta, traffic signal revision (see also Surrey)		6,826.31	
E-2623 - Scott Road (120th Street) at 76A Avenue (see also Surrey)		10,182.42	
E-2958 - Routes 1, 17 and 99, illumination of Expo 86, floral displays (various locations) (see also Langley and Surrey)		899.91	17,908.64
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0599 - Fraser River Crossing (Annacis Island)(see also New Westminster and Richmond)		5,802,159.67	
P-2801 - Trans Canada Highway, Abbotsford Fraser River, Springbrook-Halls Prairie Section		2,450.77	5,804,610.44
Total, Delta Electoral District			$55,601,830.02

DEWDNEY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			989,958.15
Snow removal			428,976.24
Bridge maintenance			138,312.02
Ferry maintenance and operations-Albion-Fort Langley Ferry (see also Langley)			1,045,113.29
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Construction Branch:			
Project C-1690 - Lougheed Highway, Haney to Albion, widening including the Kanaka Creek Bridge		1,980,742.66	
C-1799 - Highway 11, Mission Overhead approaches	500,713.89		
-Construct concrete columns	5,434.39		
-Gravelling and paving	455,833.73	961,982.01	2,942,724.67

DEWDNEY ELECTORAL DISTRICT (continued)

	$	$	$
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1709 - Mission Overhead over C.P.Railway,Mission Highway 11, Abbotsford		25,392.33	
B-2651 - Carratt Creek Bridge, Carratt Road, Cascade Creek Bridge, Sylvester Road		2,511.38	27,903.71
Ferry Landings:			
Project B-3023 - Albion-Fort Langley Ferry, ramps, pontoons and aprons(see also Langley)			29.55
Ferries Construction and Improvements:			
Project H-2927 - M. V. Klatawa, alternate fuel conversion(see also Langley)			12,364.49
Paving Branch:			
Project S-1751 - Highway 7, Lougheed Highway,Stave River to Mission			468,125.23
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Layout of first curve-north approach to Mission Bridge		85.73	
-Lougheed Highway from Haney to Silver Creek		342.73	
-Miscellaneous "C" Street Interchange to Lougheed, Mission (see also Central Fraser Valley)		30,543.72	
-Silverdale Creek - Hurd Road		11,078.18	42,050.36
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Through part of Sec.5,Tp.24 and Lakahahme I. R. 11, E.C.M.N.W.D., North Nicomen Road			3,843.60
Traffic Branch:			
Project E-1767 - Route 7 (Lougheed Highway) Haney-Albion, signal and lighting installation		41,341.40	
E-2903 - Route 7 at Park Street, Mission, signal installation and lighting revision		20,732.72	62,074.12
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2801			
-Lougheed Highway,Haney-Albion		15,611.46	
-Lougheed Highway at Dewdney Trunk Road		1,408.00	
-Sylvester Road		11,489.49	
-Lougheed Highway, Mission roadworks		72,870.25	101,379.20
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-0719 - 79B, McNeil Road, District of Pitt Meadows		58,144.00	
V-0731 - 253B, Dewdney Trunk Road and 224th Street, District of Maple Ridge		159,000.00	217,144.00
Total, Dewdney Electoral District			$6,479,898.63

ESQUIMALT-PORT RENFREW ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,151,274.44
Snow removal			298,861.00
Bridge maintenance			187,527.93
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-2159 - Highway 14, Kirby Bridge approaches		139,773.01	
C-2699 - Kelly Road, access to Canwest Shopping Centre,improvements		35,958.97	
N-0396 - Guardrail installation		935.00	176,666.98
Bridges and Ferry Landings:			
Day Labour			
Project B-2759 - Delmare Bridge, replace with steel stringers, piling, and timber deck		63,045.15	
B-2760 - Finlayson Bridge, replace with steel stringers, piling, and timber deck		37,352.94	100,398.09
Bridge Branch:			
Project B-2305 - Kirby Creek Bridge, West Coast Highway 14			75,882.67
Paving Branch:			
Project S-0086 - Paving Generally,			
-Highway 1, Douglas Street, Tolmie to Saanich Road (0.6 km)and North of Thetis Overpass (0.4 km)(see also Victoria)		45,535.33	
-Trans Canada Highway 1,Goldstream Park for 3 km northward		128,481.08	174,016.41
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Humpback Road,Highway 1 to Highway 14		2,107.71	
-Meaford-Latoria, Kelly Connex		10,635.96	
-Minor road surveys		39,140.00	
-Sooke Road (4 lane passing)		70,522.41	
-West Coast Highway 13		147.81	122,553.89
Highway Safety Branch:			
Project C-0203 - Highway Safety Measures, intersection improvements,elimination of left turn movements -including island installations		20,529.59	
C-0204 - School Route Improvements, -Otter Point Road, edgeline studs		2,568.00	
C-0205 - General Safety Works, -Highway 14 at Jacklin Road, installation of overhead lane control sign and construction of free right turn		1,972.96	25,070.55

ESQUIMALT-PORT RENFREW ELECTORAL DISTRICT (continued)

	$	$	$
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Brotherstone Road through Parcel A and B, and part of section 44, Esquimalt District		800.00	
-Reference Plan consolidating a part of Block 70, Malahat District with part of Plan 1888R, Boyd Gravel Pit		900.00	
-Subdivision of closed road within Sec.1, Esquimalt District (Whitehead Road)		900.00	
-Through Part of Parcel "D" DD1356541, Section 56, Esquimalt District-Ocean Boulevard		550.00	3,150.00
Traffic Branch:			
Project E-2345 - Route 1 at Spencer Road, Langford, signal and lighting installation		3,951.00	
E-2590 - Jacklin Road at Jenkins/Kelly, Langford, traffic signal and lighting installation		51,518.30	55,469.30
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2806			
-Brotherstone Road		7,597.60	
-Goudie Road		8.00	
-Gravel pits		1.00	
-Jacklin Road and Jenkins Avenue		3,683.00	
-Jenkins Avenue		1.00	
-Kirby Creek Bridge approaches		325.54	
-Lindholm Road		2,501.00	
-Meaford-Latoria Road		47.72	
-Pickford Road		2,700.00	16,864.86
Total, Esquimalt-Port Renfrew Electoral District			$3,387,736.12

KAMLOOPS ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			5,718,257.16
Snow removal			2,348,560.29
Bridge maintenance			457,610.63
Ferry maintenance and operations-			
Little Fort Ferry		75,971.94	
McLure Ferry		72,645.96	148,617.90
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-2822 - Coquihalla Highway,Highway 5,Offsite Section, Highway 5 junction at Long Lake Road, realignment		166,558.96	
C-2905 - Coquihalla Highway,Highway 5,Offsite Section, Highway 5, 4 lane construction (2.5 km)		132,182.32	

KAMLOOPS ELECTORAL DISTRICT (continued)

	$	$	$
Roads: (continued)			
Day Labour			
Project C-2919 - Highway 5 at Avola,rock-slope repair		57,842.00	
N-0373 - Guardrail installation		31,530.55	
N-0434 - Guardrail installation		35,366.76	
W-0344 - Fencing Schedule 2 Highways		85,762.90	
W-0361 - Fencing Schedule 2 Highways		1,000.00	510,243.49
Construction Branch:			
Project C-0916 - Highway 24,Little Fort-Phinetta Lake Section,reconstruction		1,079,861.28	
C-1563 - Halston Bridge approaches	1,729,110.76		
-Kingston Avenue,Halston Interchange to North Thompson River Bridge,Sta.99+70 to Sta.105+94 (0.624 km)	560,550.21		
-Todd Hill Pit, crushing	67,350.57		
-Yellowhead Highway 5 and Halston Connector, C.N.R.Crossing to Weigh Scale, paving	787,013.25	3,144,024.79	
C-2874 - Coquihalla Highway,Highway 5,Offsite Section,Highway 1 and 5 interchange, grading		516,063.38	4,739,949.45
Roadside Development and Landscape Branch:			
Project D-2779 - Kingston Avenue to North Thompson River Bridge, landscape development			104,124.01
Bridges and Ferry Landings:			
Day Labour			
Project B-1424 - Miscellaneous bridge repairs (repair all seal joints) (see also Prince George South)		1,089.11	
B-2525 - Lions Creek Bridge,prefab I beam bridge		16,611.63	
B-2723 - Hemp Creek Bridge,construct box beam bridge		75,311.55	
B-2724 - Lemieux Creek Bridge,construct box beam bridge		65,719.03	158,731.32
Bridge Branch:			
Project B-1677 - Kamloops Bridge (North Thompson River),on Highway 5 to Brocklehurst		1,248,199.75	
B-2428 - Kamloops Junction Overhead, Kootenay Underpass, Highway 5		1,164,237.71	
B-2788 - Six Mile Bridge, North Thompson Highway, modifications		2,827.86	2,415,265.32
Paving Branch:			
Project S-0086 - Paving Generally,		105,548.50	
S-0087 - Surveys and investigations,		150,173.06	
S-2814 - Coquihalla Highway,Highway 5,Offsite Section, Highway 5,Merritt District Boundary-Junction Highway 1 in Kamloops (34.8 km)		486,544.81	742,266.36
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Afton Mine to Valleyview	101,949.23		
-Lac Le Jeune-2775A	8,154.60		
-Little Fort-Lac Des Roches (see also Cariboo)	21,067.80		
-North Thompson Crossing,Kamloops, photo and mapping leading to location survey	24,450.33		

KAMLOOPS ELECTORAL DISTRICT (continued)

	$	$	$
Planning and Engineering Services (continued)			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-North Thompson Highway from Paul Creek to Heffley Creek	46,500.57		
-Shuswap Road realignment in slide area opposite Monte Creek Junction	1,348.85		
-Trans Canada Highway 1, Cherry Creek to Cornwall Lodge	14,132.70		
-Trans Canada Highway, from Valleyview to Campbell Creek	73,155.74	290,768.82	
L-2696 - Coquihalla Highway,Merritt -Kamloops Section, intersection of Highway 1 and 5 at Kamloops		178,242.30	469,011.12
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Deadman-Vidette Road through District Lot 543,Gp.1 and part of Sec.22,Tp.22,Rge.22,W6M 2.1 km+-		4,755.00	
-Kootenay Road widening within Kamloops Indian Reserve No.1		874.65	
-Through part of Lot 5,Plan 2673 in S.1/2 of Section 20 and N.1/2 of N.W.1/4,Sec.17,Tp.19,R.17,W6M		2,100.00	
-Through Section 18,Tp.21,Range 16, W6M KDYD, Strawberry Heights Road		1,600.00	9,329.65
Traffic Branch:			
Project E-0702 - Various signal and lighting installations, Kamloops: 1) Route 1 at Route 5, Kamloops, signal and lighting installations 2) Route 1 at Pacific Way,Kamloops, lighting installation 3) Route 1 at Copperhead Drive, lighting installation		33,897.46	
E-2776 - Route 5 at: 1) Jenkins Road 2) North Thompson Highway,north intersection 3) North Thompson Highway,south intersection, Blackpool		8,598.86	
E-3015 - Route 5A at: 1) Aberdeen Drive 2) Hugh Allen/Summit Drive,Kamloops, lighting installation		389.60	42,885.92
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2802			
-Clearwater Valley Road	23,840.00		
-Dunn Lake Road	3,600.00		
-Heffley-Louis Creek Highway	1.00		
-Intersection of Highway 1 and 5	1,968,175.00		
-Kingston Avenue	23,425.43		
-Lemieux Creek Road	2,280.80		
-Long Lake Road	2,454.34		
-Merritt-Kamloops Highway 5	28,430.00		
-North Thompson Highway 5	1.00		
-South Approach Overlander Bridge	400.00		
-Strawberry Heights Road	1.00		
-Summit Drive extension	160.06		
-Trans Canada Highway	1.00		
-Trans Canada Highway,Merritt Junction to Valleyview	7,385.44		
-Westsyde Road,Westmount to Franklin	81.00		

KAMLOOPS ELECTORAL DISTRICT (continued)

	$	$	$
Property Services Branch: (continued)			
Rights-of-way and Property Purchases			
Project P-2802			
-Windpass Road	4,844.00		
-Yellowhead Highway 5, south	1.00	2,065,081.15	
P-2804			
-Main Street 129		3.00	2,065,084.15
Total, Kamloops Electoral District			$19,929,936.77

KOOTENAY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,770,016.54
Snow removal			1,517,639.06
Bridge maintenance			186,367.69
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project N-0385 - Guardrail Installation		25,976.53	
N-0386 - Guardrail Installation		34,000.00	
W-0353 - Fencing Schedule 2 Highways		28,311.40	
W-0354 - Fencing Schedule 2 Highways		20,000.00	108,287.93
Construction Branch:			
Project C-1312 - Elk Valley Road, Sparwood to Cummings Creek Section, construction		588,599.30	
C-1864 - Highway 3 east of Sparwood, weigh scale construction		883.16	
C-3720 - Highway 95A and Cranbrook Airport Access Road,Wycliffe-Cranbrook Sta.10+00-Sta.406+00(7.66 miles); Cranbrook Airport Access Road Sta.0+00-Sta.81+00(1.58 miles),construction		21,959.00	611,441.46
Bridges and Ferry Landings:			
Day Labour			
Project B-1503 - Yahk Slough Bridge,sidewalk and curb repairs		12,000.00	
B-2254 - Moyie River Bridge,concrete repairs		15,000.00	
B-2255 - West Fernie Bridge,concrete repairs		29,334.26	
B-2733 - Curzon Bridge, concrete repairs		20,000.00	
B-2734 - Sand Creek Bridge, repair stringer		22,642.00	
B-2735 - Betania Bridge, purchase materials		4,512.87	103,489.13
Bridge Branch:			
Project B-1306 - Elkford Spur Overhead and Michel Prairie Bridge, Elk Valley Road		28,078.92	
B-1307 - Sparwood Overhead and Michel Creek Bridge, Elk Valley Road		5,628.43	
B-2182 - Hosmer Bridge,Highway 3, sidewalk addition		400.00	34,107.35

KOOTENAY ELECTORAL DISTRICT (continued)

	$	$	$
Paving Branch:			
Project S-0086 - Paving Generally,		5,666.78	
S-0087 - Surveys and Investigations		46,762.27	
S-2657 - Elk River Valley Airport, Sparwood, pave		261.25	52,690.30
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Betania Bridge, relocation on Dempsey Road		5,790.51	
-Cranbrook north interchange		11,237.58	
-Fernie curb and gutter survey (Highway 3 between bridges)		18,585.28	
-Highway 3 east of Hosmer Bridge, site survey		24,773.51	
-Highway 3 to McGillivray		420.22	
-Highway 3, Elko-Morrisey		110.00	
-Highway 3,site plan for turn slots, Rosen Lake and Jaffray Yard		26,597.31	
-Minor road surveys		1,034.00	
-Sand Creek Bridge on Jaffray-Baynes Lake Road, site plan		13,723.48	
-Southern Trans Provincial Highway 3-Upper Moyie Lake		713.32	
-Wildlife reflector study(see also Nelson-Creston)		5,944.89	108,930.10
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Betts Road through District Lots 11763 and 11764, Kootenay District 1.5 km+-		2,600.00	
-E.Bdy.,S.L.36 to W.Bdy.S.L.27, D.L.4592,Kootenay District 6.8 km+- 18 St. Marys Lake Road		172.80	
-Elk Valley Road 43-E.Bdy.,D.L. 7991 to S.Bdy.,D.L.7995,K.D.		9,288.00	12,060.80
Traffic Branch:			
Project E-2180 - Route 3(Elk Valley Road), at Aspen Drive,Sparwood,pedestrian signal and lighting revision		17,480.81	
E-2355 - Route 3, Sparwood weigh scale, Sparwood area, lighting installation		4,706.80	22,187.61
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2803			
-23rd Street South 697		3,092.75	
-Aldridge Road 703		1,000.00	
-Becker subdivision		1.00	
-Betts Road 97		4,973.00	
-Brander Road 96		425.00	
-Dempsey Road 97		908.00	
-Elk Valley Highway-Savarie Section		1,468.00	
-Gravel Pits		27,200.00	
-Kaisner Road 300		515.00	
-Labelle Road 86		1.00	
-Mennie Road 100		3,151.00	
-Mole Road 299		3,441.00	
-Pippin Road 391		3,663.40	49,839.15
Total, Kootenay Electoral District			$5,577,057.12

LANGLEY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			670,854.83
Snow removal			122,370.56
Bridge maintenance			31,242.66
Ferry maintenance and operations– Albion–Fort Langley Ferry (see also Dewdney)			1,045,113.29
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Bridges and Ferry Landings: Ferry Landings: Project B–3023 – Albion–Fort Langley Ferry, ramps, pontoons and aprons (see also Dewdney)			29.54
Ferries Construction and Improvements: Project H–2927 – M. V. Klatawa, alternate fuel conversion (see also Dewdney)			12,364.49
Planning and Engineering Services Highway Design and Surveys Branch: Surveys Generally – Project L–0101			
–Carvolth from Highway 401 to Fraser Highway		240.90	
–Fraser Highway at 208th Street to Glover Road,Langley,miscellaneous		220.57	
–Highway 10–Cloverdale east truck lane		2,089.81	
–Highway 1A from 200th Street to 202nd Street		193.00	
–Plan, profile and estimate for the reconstruction of Glover Road between Spring Brook Road and 88th Avenue		130.23	2,874.51
Traffic Branch: Project E–2692 – Route 1A (Fraser Highway) at 201A (Frost Street), Langley, signal installation and lighting revision		25,552.08	
E–2958 – Routes 1, 17 and 99, illumination of Expo 86, floral displays (various locations) (see also Delta and Surrey)		899.91	26,451.99
Municipal Programs Branch: Secondary Highway Construction and Improvements Project V–0689 – 256B, 200th Street (Carvolth Road), City of Langley			47,974.00
Total, Langley Electoral District			$1,959,275.87

MACKENZIE ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,784,721.33
Snow removal			385,601.74
Bridge maintenance			209,336.65
Ferry maintenance and operations–			
Comox–Powell River Ferry (see also Comox)		2,610,475.89	
Texada Island Ferry		1,920,695.03	4,531,170.92
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project N–0369 – Guardrail installation			39,931.81
Bridges and Ferry Landings:			
Day Labour			
Project B–2232 – Sallahlus Bridge, reconstruct			199,968.15
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally – Project L–0101			
–Highway 101 from Secret Cove to Madeira Park		406.20	
–Minor road surveys		1,926.59	2,332.79
Highway Safety Branch:			
Project C–0204 – School Route Improvements, –Chaster Road, Cedar Grove Elementary School			27,834.21
Legal Surveys Office:			
Legal Surveys – Project L–0099			
–D.L.'s 1315, 1625, 1316 and 1622, Gp1,N.W.D. 1.2 km+–, Highway 101		6,500.00	
–Highways through part of D.L.1500, Group 1, N.W.D., Hollingsworth Road, 0.2 km		1,140.58	
–Through part of Sections 7 and 8, Township 4, Range 3, Coast District 840 Salloomt River Road 2.0 +–		6,332.98	13,973.56
Property Services Branch:			
Rights–of–way and Property Purchases			
Project P–2801			
–Highway 101 and Roberts Creek Road	3,710.00		
–Sunshine Coast Highway 101, Langdale, Park Road	300,000.00	303,710.00	
P–2804			
–Denny Island Airport Road 1251	1.00		
–Salloomt River Road 840	3,398.60	3,399.60	307,109.60
Total, Mackenzie Electoral District			$7,501,980.76

MAILLARDVILLE-COQUITLAM ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			193,809.18
Snow removal			28,765.34
Bridge maintenance			21,928.59
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project W-0793 - Fencing Schedule 2 Highways			43,500.00
Construction Branch:			
C-1841 - Lougheed Highway 7,			
-Cape Horn - Colony Farm		1,526,493.76	
-Gravelling and paving		1,006,425.05	2,532,918.81
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1827 - Cape Horn Flyover, C.P.R. Overpass, Lougheed Highway 7, widening		647,148.53	
B-2408 - Mary Hill Bypass, Cape Horn to Pitt River Highway		72,273.45	719,421.98
Paving Branch:			
Project S-1754 - Highway 1, Trans Canada sections, Capilano Bridge to east of Port Mann Bridge(see also Burnaby-Edmonds and North Vancouver-Seymour)			2,655.37
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Mary Hill Bypass			134,288.31
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2801			
-Lougheed Highway, Cape Horn to Pitt River Highway		4,500.00	
-North Road to Cape Horn Interchange		10,684.31	15,184.31
Total, Maillardville-Coquitlam Electoral District			$3,692,469.89

NANAIMO ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,254,472.02
Snow removal			352,132.28
Bridge maintenance			139,868.62
Ferry maintenance and operations-			
Gabriola Ferry		2,624,796.14	
Newcastle Island Ferry subsidy		17,260.00	2,642,056.14

NANAIMO ELECTORAL DISTRICT (continued)

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-2144 - Highway 19, Northfield Road, pedestrian underpass		74,435.50	
D-0012 - Rest area upgrading		45,999.90	
N-0395 - Guardrail installation		14,870.00	135,305.40
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Cypress Street to B. C. Ferry property		14,025.83	
-George Pearson Bridge to Departure Bay Road, mapping for curb and gutter		6,911.82	
-Highway 19, Bowen Road, Norwell and Rock City Road		7,554.17	
-Highway 19, Nanaimo Bypass		46,635.15	
-Highway 19, Nanaimo, Hammond Bay Road-Superior Road		22,384.97	
-Island Highway from Chemainus to Ladysmith		26,083.80	
-Island Highway from Ladysmith to Carmichael Road		886.06	
-Minor road surveys		39,025.63	
-Nicol Street four laning		569.15	
-Terminal/Wallace Couplet, south end of Nicol Street to George Pearson Bridge		2,363.09	
-Trans Canada Highway from James Street to Beverly Street,Duncan, two way left turn lane		8,194.70	174,634.37
Highway Safety Branch:			
Project C-0204 - School Route Improvements,			
-Shoulder treatment/fill placement, Wilkinson Road, for pedestrian walkway		5,875.00	
-Shoulder treatment, south Oyster Road, Cassidy		9,966.00	15,841.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Nanaimo Ferry Terminal		750.00	
-Right-of-way for Highway at Departure Bay Ferry Terminal		664.00	
-Survey for plan of subdivision consolidating Lots 5 and 6, Section 10,Range 7,Plan 1724, Cranberry District		900.00	
-Through Block 681,Nanoose District LTO Plan 41378		726.85	
-Trans Canada Highway widening-D.L.19 to N.Bdy.,D.L.52 3.5 km+-		13,620.00	16,660.85
Traffic Branch:			
Project E-2414 - Route 19 near Northfield Road, Nanaimo, pedestrian underpass lighting installation			29,693.30
Property Services Branch:			
Rights-of-way and Property Purchases Project P-2806			
-Barnes Road		16,071.00	
-Nanaimo Bypass		1,600.00	
-Trans Canada Highway, Ladysmith to Carmichael Road		3,690.00	
-Trans Canada Highway, Westdowne Road - Ladysmith		1.00	21,362.00
Total, Nanaimo Electoral District			$6,782,025.98

NELSON-CRESTON ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			7,143,963.23
Snow removal			2,961,692.85
Bridge maintenance			684,903.14
Ferry maintenance and operations–			
Glade Ferry		178,409.11	
Harrop Ferry		246,218.18	
Kootenay Lake Ferry		2,091,749.58	
Sunshine Bay Dry Dock		12,598.60	2,528,975.47
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project D-1554 - Rest area upgrading		42,298.64	
N-0381 - Guardrail installation		52,000.00	
N-0384 - Guardrail installation		60,578.14	
N-0389 - Guardrail installation		29,992.28	
W-0794 - Fencing Schedule 2 Highways		15,000.00	199,869.06
Bridges and Ferry Landings:			
Day Labour			
Project B-1497 - Pass Creek Bridge,replace with culvert		46,162.65	
B-1498 - Airy Creek Bridge, complete decking		17,666.49	
B-1506 - Goldhill Bridge,replace approach with box beams		31,303.26	
B-2243 - Campbell Bridge,replace		73,500.48	
B-2252 - Meadow Creek Bridge,replace		8,163.00	
B-2725 - Erie Overhead and Salmo River Bridge, sealcoat deck		6,328.15	
B-2730 - Duncan Dam Bridge, pier and deck repairs		99,692.02	
B-2731 - Davis Bridge,replace with culvert		51,112.90	
B-2732 - Duncan River Bridge,remove truss bridge		5,800.00	
B-2739 - Crawford Creek Bridge,repair piers and deck		10,000.00	349,728.95
Bridge Branch:			
Project B-1736 - Slocan Park Bridge, Slocan Valley West Road, Passmore Bridge, Passmore Upper Road		389,537.50	
B-1823 - Creston-Porthill Bridge, Creston-Rykert's Highway		298,083.15	687,620.65
Ferry Landings:			
Project B-2436 - Balfour and Kootenay Bay Ferry Terminals, new steel loading ramps			381,993.55
Paving Branch:			
Project S-0004 - Miscellaneous Surface Seals,			
-Highway 3,Salmo-Creston (Skyway)	432,092.67		
-Highway 3-Canyon Street (Creston City Bdy.)to Walker Bridge (Goat River)	496,023.34		
-Highway 3A, Sanca Creek Bridge to Highway 3 junction at Creston	282,649.33		
-Highway 6, Nelson-Euphrates km 25 to km 39	220,085.69		
-Hot Spring Road, 2 km north of Nakusp on Highway 23	286,474.87	1,717,325.90	

NELSON-CRESTON ELECTORAL DISTRICT (continued)

	$	$	$
Paving Branch (continued):			
Project S-0086 - Paving Generally		16,299.88	
S-0087 - Surveys and Investigations		239,066.47	
S-1824 - Highways 3, 3A, 3B and 6 in the Nelson area, miscellaneous paving (see also Rossland-Trail)		7,041.27	1,979,733.52
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Avis Road, Nelson		1,390.00	
-Creston Bypass revisions		36,990.94	
-Highway 3 east of Creston		2,348.00	
-Highway 3A, Shoreacres intersection west of Nelson		2,761.00	
-Junction of Highway 3 and Summit Creek Road		4,569.30	
-Kootenay Bay Ferry approach		32.10	
-Minor road surveys		43,388.34	
-Nelson-Creston Highway from Nelson to Balfour		250.00	
-Relocation of Highway 31 and Davis Creek at Lardeau		2,933.00	
-Salmo, curb and gutter(4th Street)		4,807.54	
-Wildlife reflector study (see also Kootenay)		5,944.88	105,415.10
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Blewett and Samsanoff Roads within part of Lot 6306, K.D.		1,000.00	
-Buterman Road in Lower Kootenay Indian Reserve 1 and D.L. 15051, K.D.		1,096.51	
-Gravel Pit lease of part of Lot 2, Plan 1387,D.L.7702 Kootenay District,Kerfoot Gravel Pit		1,000.00	
-Highway right-of-way through part of D.L.8338(SK 446 D),Parcel A, K.D.Avis Road 4		1,000.00	
-Lots 2 and 3,Plan 1621,D.L.3333, K.D.,Blewitt Road 30		1,000.00	
-Plan of subdivision Parcel A and Parcel B,Blk.182,Plan 921,D.L.812, Kootenay District,Leach Road 191		900.00	
-Reposting of Speers Road 319 front in Blocks 7 and 6,Plan 1859,D.L.13566,K.D.		800.00	
-Southern Trans Provincial Highway 1) Creston Bypass, Knight Road to Arrow Creek 2) Through part S.L.2 and 16 of D.L.4592,K.D. 5.1 km +-		16,340.00	
-Southern Trans Provincial Highway 3,Creston bypass, Helen Road to Haskins East Road 4.9 km+-		12,188.00	
-Through part D.L.394,K.D.,Springer Creek Road 248		5,000.00	40,324.51
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2803			
-Arrow Creek West Road 7		6,204.50	
-Canyon-Lister Road 50		555.00	
-Clayton Road 74		3,263.00	
-Connel Road 61		12,891.60	
-Corn Creek Road 62		5,242.35	
-Creston Bypass		17,244.00	

NELSON-CRESTON ELECTORAL DISTRICT (continued)

	$	$	$
Property Services Branch: (continued)			
Rights-of-way and Property Purchases			
Project P-2803			
-Fern Road 77		9,565.00	
-Fillipoff Road 539		3,460.00	
-Gravel Pits		10,250.00	
-Highway 6		700.00	
-Highway 6, Brouse-Nakusp		4,000.00	
-Johnstone Road 233		1.00	
-Jones Road 169		14,304.02	
-Kaslo Arterial		2,500.00	
-Kootenay Bay-Creston Highway 3A		2,257.50	
-Kosiancic Road 239		1.00	
-Lakeview Road 198		1,066.00	
-Landville Road 33		9,000.00	
-Nelson-Balfour Highway 3A		45,262.50	
-Packing Shed Road 374 extension		2,500.00	
-Vernon-Slocan Highway 6		11,815.00	162,082.47
Municipal Programs Branch:			
Amalgamation Grants			
Project O-0925 - Town of Creston			21,000.00
Total, Nelson-Creston Electoral District			$17,247,302.50

NEW WESTMINSTER ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			58,769.00
Snow removal			4,400.36
Bridge maintenance			33,278.74
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Construction Branch:			
Project C-1121 - Marine Way,Byrne Road to north end of Queensborough Bridge			
-Grade construction (see also Burnaby-Edmonds)	135,245.00		
-Wick drain installation	2,576.92	137,821.92	
C-1593 - Fraser River Crossing (Annacis Island),Highway 99 to Queensborough Bridge,pier protection works and dredging (see also Delta)		730,391.73	
C-1775 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge,ditching and grading Sta.181+30-Sta.192+00		1,350,152.08	
C-2342 - Fraser River Crossing (Annacis Island), sewer line relocation		305,290.63	
C-2359 - Fraser River Crossing (Annacis Island), Queensborough, B.C.H. relocation		1,182,702.41	
C-2380 - Fraser River Crossing (Annacis Island), Queensborough Bridge,Marine Way to Sixth Avenue and Fifth Avenue intersection		2,601,247.32	

NEW WESTMINSTER ELECTORAL DISTRICT (continued)

	$	$	$
Roads: (continued)			
Construction Branch:			
Project C-2410 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, Lulu Island, dredging contract(see also Delta and Richmond)		593,006.64	
C-2413 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, Queensborough Loop Road, preliminary grading		904,950.12	
C-2416 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, soil densification (vibro compaction)		1,082,588.91	
C-2493 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, Annacis Island water line relocation		161,388.47	
C-2597 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, Boundary Road Overpass approaches, construction(see also Richmond)		20,880.84	
C-2616 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, (Queensborough Section)Ewen Avenue, paving		206,556.59	
C-2618 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, Queensborough Bridge approaches, Boundary Road Overpass approaches, sewer and water line relocation (Richmond Connector)Annacis Channel Bridge north approaches, wick drain construction (see also Richmond)		350,364.00	
C-2619 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, Annacis Channel Bridge, west-south approach, Hamilton Overpass approaches, Howes Overpass approaches, wick drain construction (see also Richmond)		240,784.41	
C-2656 - Fraser River Crossing (Annacis Island), Highway 99 to Queensborough Bridge, Queensborough Connector(Queensborough Bridge Boundary Road), construction (see also Richmond)		1,761,282.76	
C-2681 - Fraser River Crossing (Annacis Island), Marine Way, Greenall-Queensborough Bridge, gravelling and paving (see also Burnaby-Edmonds and Burnaby-Willingdon)		97,921.61	
C-2877 - Fraser River Crossing (Annacis Island), Cliveden interchange, gravelling and paving		68,603.05	
C-2967 - Fraser River Crossing (Annacis Island), Queensborough area, wick drain construction (see also Richmond)		104,956.32	11,900,868.81
Bridges and Ferry Landings:			
Day Labour			
Project B-2767 - Fraser River Crossing (Annacis Island), Queensborough Bridge, pier protection work			50,000.00

NEW WESTMINSTER ELECTORAL DISTRICT (continued)

	$	$	$
Bridge Branch:			
Project B-0894 - Fraser River Crossing (Annacis Island),moveable bridge		2,792,627.81	
B-0896 - Fraser River Crossing (Annacis Island),main span (see also Delta)		16,159,496.13	
B-1420 - Pattullo Bridge, retro fitting south approach,bearing replacement (see also Surrey)		400,988.47	
B-2444 - Fraser River Crossing (Annacis Island), insurance premiums (see also Delta)		256,662.00	
B-2450 - Fraser River Crossing (Annacis Island), Annacis Channel East Bridge, Annacis Highway, pile driving and load test		333,990.95	
B-2455 - Fraser River Crossing (Annacis Island), Annacis Bridge north approach		6,705,975.14	
B-2599 - Fraser River Crossing (Annacis Island), Annacis Channel East Bridge		1,737,745.90	
B-2637 - Fraser River Crossing (Annacis Island), Annacis Bridge north approach N3-N15		10,500,710.74	
B-2690 - Fraser River Crossing (Annacis Island),modifications to Queensborough Bridge		707,739.12	
B-2791 - Fraser River Crossing (Annacis Island),Cliveden Avenue Underpass		416,511.31	
B-2924 - Fraser River Crossing (Annacis Island),north approach N20 to north abutment and off-ramp		619,458.78	40,630,906.35
Planning and Engineering Services			
Geotechnical and Materials Engineering Branch:			
Project G-0038 -Fraser River Crossing (Annacis Island), geotechnical investigations (see also Richmond)			310,917.81
Highway Design and Surveys Branch:			
Project L-0558 - Fraser River Crossing (Annacis Island),			
-Annacis Crossing of Fraser River		656,998.92	
-Belgrave Way to Carter (Annacis Truck Route)		200,024.99	857,023.91
Highway Planning Branch:			
Project O-1188 - Fraser River Crossing (Annacis Island),project study and preliminary design planning (see also Delta)			16,851.91
Traffic Branch:			
Project E-2707 - Marine Way,Queensborough Bridge to Fifth Avenue, New Westminster, signal and lighting installation		10,829.98	
E-2856 - Fraser River Crossing (Annacis Island),Annacis Loop Road, (Gifford Jardine Connector),Ewen Avenue at Pembina Street,New Westminster, conduit,junction box and pedestal installation		19,186.00	30,015.98

NEW WESTMINSTER ELECTORAL DISTRICT (continued)

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-0599 -Fraser River Crossing(Annacis Island)(see also Delta and Richmond)			1,896,859.90
Total, New Westminster Electoral District			$55,689,892.77

NORTH ISLAND ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,853,492.30
Snow removal			665,704.08
Bridge maintenance			272,241.84
Ferry maintenance and operations-			
Alert Bay Ferry		1,899,559.40	
Cortes Island Ferry		872,985.75	
Quadra Island Ferry		1,751,501.83	4,524,046.98
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-2952 - District of Campbell River, install storm drains and resurface Highway 19 from St.Ann's Road to 9th Avenue		38,000.00	
N-0398 - Guardrail installations		40,000.00	78,000.00
Construction Branch:			
Project C-2993 - Zeballos-Fairharbour, Forest Roads		59,502.04	
C-4551 - Head Bay Forest Road, Gold River to Tahsis		527,985.45	587,487.49
Bridges and Ferry Landings:			
Day Labour			
Project B-2757 - Port Alice Road Bridge, replace with H piles and Box Beams		103,659.80	
B-2758 - Malcolm Bridge, replace with culvert		47,346.50	151,006.30
Bridge Branch:			
Project B-2420 - Buttle Narrows Bridge, Highway 28			1,072,738.91
Ferry Landings:			
Project B-2945 - Campbell River and Quathiaski Cove Ferry Terminals, repairs to dolphins			92,708.12
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals, -Highway 19, Sayward to Eve River Bridge		475,945.87	
S-0086 - Paving Generally		19,334.64	
S-0087 - Surveys and Investigations		59,303.02	554,583.53

NORTH ISLAND ELECTORAL DISTRICT (continued)

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Coal Harbour Access off Highway 19 near Port Hardy, Lamonte Bridge site plan		1,114.80	
-Gold River-Tahsis, traverse existing road between Upana Summit and Tlupana Creek		321.23	
-Highway 19 (Port McNeill-Port Hardy), Keogh Bridge site plan		12,838.55	
-Island Highway north of Campbell River		8,527.52	
-Minor road surveys		18,355.13	
-Willow Point - Campbell River		822.54	41,979.77
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Reposting of S.E.corner of Lot 27 plan 1109 District Lot 216 Quadra Island		200.00	
-Sutil Point Road 33 in part of sections 6 and 7, Cortes Island, Sayward District 1.2 km +-		3,252.00	3,452.00
Traffic Branch:			
Project E-2406 - Route 19 at Campbell Way, Port McNeill, lighting installation			754.00
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2806			
-Cranberry Lane 1245		1.00	
-Hardy Bay Road		3,549.00	3,550.00
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-3024 - 2408, Airport Road, District of Port Hardy			9,375.00
Total, North Island Electoral District			$10,911,120.32

NORTH PEACE RIVER ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,799,478.20
Snow removal			1,792,821.00
Bridge maintenance			282,528.97
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-1985 - Liard Highway, Fort Nelson River Bridge approaches and miscellaneous sections, grading and gravelling		185,824.72	
N-0432 - Guardrail installation		32,332.89	
W-0359 - Fencing Schedule 2 Highways		26,155.00	244,312.61

NORTH PEACE RIVER ELECTORAL DISTRICT (continued)

	$	$	$
Bridges and Ferry Landings:			
Day Labour			
Project B-2269 - Hudson's Hope Bridge, major repairs		29,034.92	
B-2745 - Milne Bridge, replace		131,868.59	160,903.51
Bridge Branch:			
Project B-2300 - Fort Nelson River Bridge, Fort Nelson-Fort Simpson Highway, substructure			599,611.79
Paving Branch:			
Project S-1750 - Alaska Highway 97, North Kiskatinaw Northward to Road 269, Asphalt surfacing(see also South Peace River)			1,875.00
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Desan Lake Access Road, Kotcho Lake to South Helmet		47,423.21	
-Fort Nelson-Fort Simpson Highway from Alaska Highway to N.W.T. Boundary		111.06	
-Highway 29, Halfway River to Cache Creek		2,616.49	
-Minor road surveys		7,483.68	57,634.43
Highway Safety Branch:			
Project C-0203 - Intersection Improvements, -Road 103, shoulder widening; repaving and upgrading of 86th Street			7,410.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Alaska Highway km 198 to Lot 1707, P.R.D. 16.9 km+		5,500.00	
-Alaska Highway, Prophet River to S.Bdy., Lot 1703 P.R.D. 17.1 km		2,148.20	
-Hudson's Hope Hwy.29 through part N.E.1/4 S.E.1/4, Section 20 and S.W.1/4, Section 21, Tp.84, Range 20, W6M, P.R.D. 1.3 km+-		1,150.00	
-Liard Highway 77 from a point 1.7 km south of Fort Nelson River to a point 10 km north (10 km)		6,925.16	
-Reference Plan of part of L.S.10, 11, 6, 7, and 3 in Sec.1, Tp.88, W6M, North Peace River District, Wilde Gravel Pit lease		1,475.00	
-Reposting survey monument at south-west Block A of N.E.1/4, Section 27, Township 88, Range 22, W6M Road 157		295.00	17,493.36
Traffic Branch:			
Project E-1175 - 1) Route 97 at Centre Avenue (100th Avenue) 2) Route 97 at Alder Crescent, Fort St.John, lighting installations		21,667.84	
E-2865 - Liard Highway, Acrow Bridge Crossing, Fort Nelson River, approximately 80 km north of Fort Nelson, signal and lighting installations		28,749.10	50,416.94

NORTH PEACE RIVER ELECTORAL DISTRICT (continued)

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2804			
-Cypress Creek Road		1,069.20	
-Old Fort Loop Road 616		1.00	
-Road 115		9,832.70	
-Road 121		10,283.62	
-Road 157		157.50	
-Road 184		2.00	
-Road 254		1,664.00	
-Road 269A		2.00	
-Road 285		394.35	
-Road 288		1.00	23,407.37
Total, North Peace River Electoral District			$7,037,893.18

NORTH VANCOUVER-CAPILANO ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			223,383.50
Snow removal			86,565.57
Bridge maintenance			251,601.39
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project W-2238 - Fencing Schedule 2 Highways			4,820.75
Roadside Development and Landscape Branch:			
Project D-2766 - Highway 1, North Vancouver, landscaping of the large traffic island			3,592.61
Bridges and Ferry Landings:			
Day Labour			
Project B-2714 - Mosquito Creek Bridge, galvanize fence (see also North Vancouver-Seymour and West Vancouver-Howe Sound)			18,423.44
Bridge Branch:			
Project B-1172 - Lions Gate Bridge,major repairs to north cable bent			67,326.75
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Upper levels control line			36,889.66
Traffic Branch:			
Project E-2932 - Route 1A and 99, Lions Gate Bridge, decorative lighting (see also Vancouver Centre)			7,806.96
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2801			
-Lions Gate Bridge			2,400.00
Total, North Vancouver-Capilano Electoral District			$702,810.63

NORTH VANCOUVER-SEYMOUR ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			534,674.72
Snow removal			185,497.65
Bridge maintenance			24,580.38
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project W-2238 - Fencing Schedule 2 Highways			13,907.00
Construction Branch:			
Project C-1725 - Fern Street to Mount Seymour Parkway, construction			1,671,637.18
Bridges and Ferry Landings:			
Day Labour			
Project B-2714 - Mosquito Creek Bridge, galvanize fence (see also North Vancouver-Capilano and West Vancouver-Howe Sound)			4,411.25
Bridge Branch:			
Project B-1714 - Seymour River Bridge, Mount Seymour Parkway		8,009.15	
B-2322 - Second Narrows Bridge, Trans Canada Highway, replacement of bearing base plates		5,324.00	
B-2440 - Second Narrows Bridge, C.N.R. fill		188,195.61	201,528.76
Paving Branch:			
Project S-0086 - Paving Generally		109.86	
S-0087 - Surveys and Investigations		75,830.07	
S-1754 - Highway 1,Trans Canada sections, Capilano Bridge to east of Port Mann Bridge(see also Burnaby-Edmonds and Maillardville-Coquitlam)		2,333.52	78,273.45
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Mapping and design study, North Shore transportation study, Mountain Highway interchange and Keith Road to Mt. Seymour Connection		2,419.08	
-Trans Canada Highway, Second Narrows Bridge-Lynn Creek		1,147.82	3,566.90
Traffic Branch:			
Project E-2308 - Route 1-Mount Seymour Parkway (Fern Street to Riverside Drive), signal and lighting installation			56,304.93
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2801			
-Lynn Creek-Seymour River, Fern Street to Mount Seymour Parkway			203,935.50
Total, North Vancouver-Seymour Electoral District			$2,978,317.72

OAK BAY-GORDON HEAD ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			3,536.72
Total, Oak Bay-Gordon Head Electoral District			$3,536.72

OKANAGAN NORTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,901,065.10
Snow removal			1,299,735.06
Bridge maintenance			128,948.71
Ferry maintenance and operations-			
Arrow Park Ferry		120,647.03	
Needles-Fauquier Ferry		1,037,195.85	1,157,842.88
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project N-0375 - Guardrail installation		3,376.00	
N-0384 - Guardrail installation		59,343.08	
W-0346 - Fencing Schedule 2 Highways		27,405.63	90,124.71
Construction Branch:			
Project C-2819 - Okanagan Highway 97, Bailey Road to Vernon, new construction and upgrading of existing highway to 4 lanes, including construction of local roads, paving and electrical			1,740,935.78
Bridges and Ferry Landings:			
Day Labour			
Project B-2292 - Sugar Lake Bridge, new stringers and deck ties			80,574.23
Paving Branch:			
Project S-0094 - Miscellaneous Surface Seals, -Highway 6,27 km's west of the Needles Ferry site (km 27 - km 33.3)		178,307.44	
S-0637 - Highway 6, Catt Avenue to Shuswap Avenue, Village of Lumby, storm sewer, curb and gutter and paving		4,931.79	183,239.23
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Minor road surveys		14,762.31	
-Okanagan Highway 97 (Vaseaux Lake)		21,327.69	
-Okanagan Highway 97 from Oyama to Vernon		47,885.20	
-Okanagan Highway 97 to Crosier Road, Swan Lake Junction (see also Shuswap-Revelstoke)		2,508.42	

OKANAGAN NORTH ELECTORAL DISTRICT (continued)

	$	$	$
Planning and Engineering Services (continued)			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Preliminary study of alternative route for Okanagan Highway 97 from Peachland to O'Keefe Ranch (see also Okanagan South)		5,525.44	
-Survey from Okanagan Highway 97 at Army Camp to Junction of 27th Street and Highway 6 (2.1 km)		773.64	
-Westside Road from I.R.10 to Ceasars Landing		70,582.25	163,454.95
Highway Safety Branch:			
Project C-0202 - Roadside Hazard Elimination,			
-Move utility poles along Trinity Valley Road, Lumby		3,600.00	
C-0203 - Highway Safety Measures, intersection improvements,			
-Traffic island at Westside and Six Mile Road Junction, Vernon		5,804.00	
C-0204 - School Route Improvements,			
-Creighton Valley Area School, Cherryville Area, brushing	1,996.00		
-North Fork Road, Cherryville Area, widen and pave walkway (1.5 km)	10,000.00		
-Paved footpath on Grant Road to O.K. Landing School, Vernon	14,170.00		
-School Bus turnarounds and stops, Cherryville	1,000.00	27,166.00	
C-0205 - General Safety Works,			
-Tronson Road, Vernon, fill and pave curve		9,552.00	46,122.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-1) Hare Road through Lot 122, Plan 454,Sec.20,Tp.20,ODYD 2) KLO Road through Parcel A,Plan B6318 of Lot 65,Plan 18 in D.L. 131,ODYD 3) Burtch Road through Lot 16, Plan 32159,D.L.137,ODYD 4) Read Road through Lot 21, Plan B16948,Section 10,Tp.20,ODYD		1,450.00	
-1) 95 Ferret Road through Blk.A, Plan 874,Sec.25,Tp.71,KD 2) Plan of S/D of parts of W.1/2 of N.W.1/4 of Sec.25 and E.1/2 of N.E.1/4,Sec.26,Tp.71,KD		925.00	
-Enderby-Mabel Lake Road through parts of D.L.238,Sec.28 and Sec.34,Tp.18 and Sec.2 Tp.19, W6M,KDYD 4.85 km+-		7,810.50	
-Highway 65, Dority Road 101 McFarlane Road and 269 Townsite Road within D.L.183A and D.L. 7159 and Sections 13, 14, 23 and 24, KD		8,470.63	
-Lumby-Mabel Lake Road 75, S.Bdy.,Rem.N.W.1/4,Section 20 to E.Bdy.,Rem.Frac.S.W.1/4, Section 33 to Tp.43,ODYD 3.5 km+-		7,694.50	
-Plan of subdivision consolidating lots 14, 15, 18 and 19 and Old Road Plan 455,Section 27,Township 9,ODYD(Okanagan Highway 97,Vernon)		2,190.00	
-Westside Road through lots 9 and 10,Plan 510,D.L.2549,ODYD 0.5 km+-		1,800.00	30,340.63

OKANAGAN NORTH ELECTORAL DISTRICT (continued)

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2802			
-Highway 6, Lumby-Vernon Street		1,011.53	
-Irvine Road 73		2,040.00	
-Lodge Road		1.00	
-Okanagan Highway 97		2.00	
-Okanagan Highway 97, Bailey Road to Vernon		230,336.32	
-Oyama Lake Road 643		1.00	
-Vernon-Slocan Highway 6		6,863.09	
-Westside Road, Caesar's Landing to Nahun		447,837.30	688,092.24
Total, Okanagan North Electoral District			$8,510,475.51

OKANAGAN SOUTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,220,542.20
Snow removal			762,332.43
Bridge maintenance			132,313.05
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project D-1553 - Rest area upgrading		8,051.98	
N-0376 - Guardrail Installation		26,044.88	
W-0347 - Fencing Schedule 2 Highways		7,592.69	41,689.55
Construction Branch:			
Project C-0982 - Glenmore Street extension, greater Kelowna grid road system		10.86	
C-2431 - Okanagan Highway 97,Gorman's Mill to I.R.9 including Westbank Couplet; grading, paving and electrical		3,661,540.76	
C-2459 - Okanagan Highway 97(Harvey Avenue) Okanagan Bridge to Pandosy Street, Kelowna, reconstruction		1,323,189.51	4,984,741.13
Roadside Development and Landscape Branch:			
Project D-1806 - Okanagan Highway 97,Sta. 767+00 to Westside Road, Kelowna, landscape development			7,040.00
Bridges and Ferry Landings:			
Day Labour			
Project B-2719 - Mill Creek Bridge 1, reconstruct wood structure		10,460.96	
B-2720 - Mill Creek Bridge 6, reconstruct wood structure		9,822.42	20,283.38
Bridge Branch:			
Project B-0688 - Okanagan Lake Bridge, proposed 4 laning		31,918.63	
B-0692 - Okanagan Lake Bridge, Kelowna		726,936.50	758,855.13

OKANAGAN SOUTH ELECTORAL DISTRICT (continued)

	$	$	$
Paving Branch:			
Project S-0086 - Paving Generally		816.69	
S-0087 - Surveys and Investigations		42,518.58	
S-2785 - Highway 33, Rutland Road, City of Kelowna		1,203,979.74	
S-2912 - Okanagan Highway 97(Harvey Avenue),Pandosy Street to Princess Street, upgrade to six lane curb and gutter		706,713.70	1,954,028.71
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys generally - Project L-0101			
-Harvey Avenue, Kelowna		133,203.89	
-Highway 33 from Highway 97 to McKenzie Road, Rutland		184,422.33	
-Minor road surveys		21,354.96	
-Okanagan Highway 97, Kelowna, Glenmore Street to Reid's Corner		841.39	
-Okanagan Highway 97,Beaver Lake Road-Pretty Road, Winfield		25,875.01	
-Peachland to Powers Creek (Gorman's Mill)		13,960.97	
-Preliminary study of alternative route for Highway 97, from Peachland to O'Keefe Ranch (see also Okanagan North)		5,525.44	
-Westbank, Kelowna impact study		44,533.80	429,717.79
Legal Surveys Office:			
Legal surveys - Project L-0099			
-1) Field Road in Lots 8 and 11, Plan 1247,Sec.1,Tp.26,ODYD except Plan 17674 2) Rutland Road in Lot 24,Plan 264,and in Lot 25,Plan B511,N.W. 1/4,Sec.35,Tp.26 3) McClain Road in Lot 76,Plan 1247,Sec.3,Tp.26,ODYD		1,294.27	
-In lots 52 and 102,Plan 521 and Lot 9,Plan 25775 all in Section 4, Township 20,ODYD,Stubbs Road		950.00	
-Okanagan Highway 97 and Frontage Road through part of Tsinstikeptum I.R.9 and D.L.5055, 5056 and 2044, ODYD		522.41	
-Reposting of Monuments between Lots 11, 12, 18 and 19,Plan 29407, D.L.173,ODYD, as shown on Plan A13878 drainage easement between Darlene and Pheasant Roads		650.00	
-Right-of-way for Reynolds Road, Lot 2, Block 20, Plan 1249		400.00	
-Shannon Lake Road,East Boundary Road, Lower Boucherie Road in Tsinstikeptum I.R.9		1,400.00	
-Tyndall Road 633 in Sections 4, 9 and 16,Tp.20,ODYD 3.0 km+-		8,806.35	
-Woods Lake Bottom Road through District Lots 118 and 169 and Sec.10,Tp.20,ODYD		4,640.00	18,663.03

OKANAGAN SOUTH ELECTORAL DISTRICT (continued)

	$	$	$
Traffic Branch:			
Project E-2337 - Okanagan Highway 97, Abbott Street to Pandosy Street, Kelowna, signal and lighting replacement		95,371.34	
E-2439 - Okanagan Highway 97, Kelowna Bridge, reversible lane control		545,762.48	
E-2621 - 1) Okanagan Highway 97 at Trepanier Bench Road, Peachland and at Commonwealth Road, 2) Gordon Drive at KLO Road, Kelowna, signal and lighting installation		34,746.97	
E-2712 - Okanagan Highway 97-Gorman's Mill Road to Gellatly Road, Westbank, signal and lighting installation		248,764.76	924,645.55
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2802			
-Elliot Road		2,000.00	
-Gellatly Road		1,001.00	
-Glenmore Street extension, Kelowna		497.10	
-Glenrosa Road		3,128.00	
-Highway 33, Rutland		941,655.07	
-K.L.O. Road		1,200.00	
-Lakeshore Road		1,000.00	
-Okanagan Highway 97		3,550.50	
-Okanagan Highway 97 and 2nd Street, Winfield		125,000.00	
-Okanagan Highway 97, (Harvey Avenue)		1,627,577.65	
-Okanagan Highway 97, Gorman's Mill-I.R.9		16,813.75	
-Okanagan Highway 97, Westbank-Kelowna		3,640.00	
-Rock Creek-Kelowna Highway		1,050.00	
-Sexsmith Road		2,932.67	2,731,045.74
Total, Okanagan South Electoral District			$14,985,897.69

OMINECA ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			4,841,661.25
Snow removal			2,576,271.62
Bridge maintenance			336,132.55
Ferry maintenance and operations-Francois Lake Ferry			1,441,066.53
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-2943 - Arterial Highway, Fort St James, pave		181,524.13	
D-0010 - Rest area upgrading		3,947.01	
N-0393 - Guardrail installation		4,932.45	
N-0433 - Guardrail installation		13,969.00	
W-0360 - Fencing Schedule 2 Highways		29,861.01	
W-0364 - Fencing Schedule 2 Highways		7,681.70	241,915.30

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OMINECA ELECTORAL DISTRICT (continued)

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Construction Branch:			
Project C-2329 - Highway 35, Burns Lake, -Burns Lake Bridge to Yellowhead Highway 16	1,562,528.66		
-C.N.R. Overpass approaches	503,619.92	2,066,148.58	
C-2821 - Vanderhoof, Weigh Scale Station, construction		150,949.71	2,217,098.29
Bridges and Ferry Landings:			
Day Labour			
Project B-2746 - Deep Creek Bridge,replace		44,816.85	
B-2747 - Fawcett Bridge, replace		65,601.07	
B-2752 - Major Bridge repairs(various side roads)		24,782.70	135,200.62
Bridge Branch:			
Project B-0708 - Vanderhoof West Bridge and Overhead, West Bridge,Highway 27		12,057.48	
B-2369 - Walcott Footbridge, Walcott Road, replacement of timber towers		36,855.00	48,912.48
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals, -Highway 16, Burns Lake to Tentagel	198,445.57		
-Highway 16, Topley to Forest Dale Road	131,870.72	330,316.29	
S-1679 - Highway 27, Vanderhoof-Fort St.James, Nechako River Bridge approaches		47.30cr	
S-1737 - Yellowhead Highway 16 and Highway 35, Burns Lake to Tentagel		71,252.59	
S-1765 - Highway 16 and miscellaneous Smithers Roads (see also Skeena)		3,730.64	405,252.22
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Burns Lake Bypass, Yellowhead Highway 16		341.44	
-D.L.338 to D.L.623 Highway 16 West of Houston		43,777.39	
-Canadian National Overhead Westside at Vanderhoof		446.00	
-Houston to Nadina River		7,746.74	
-Vanderhoof Grid-Boundary Road extension, Victoria Street to 4th Street		74,287.31	
-Vanderhoof-Stuart Lake(27),Nechako River Bridge approaches		1,816.08	128,414.96
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Highway through district lots 1603 and 1635, Range 5, Coast District Vanderhoof-Stewart Lake, Highway 27 - 3.5 km		1,406.00	
-Yellowhead Highway 16 and Anderson Road, S.Bdy.,D.L.290 to N.Bdy.,D.L. 279, R.5, C.D. 5.6 km+-		11,145.70	12,551.70

OMINECA ELECTORAL DISTRICT (continued)

	$	$	$
Traffic Branch:			
Project E-1761 - 1) Route 16 at New Route 27 (weigh scale) 2) New Route 27 at Braeside Road, Vanderhoof, lighting installations		24,947.93	
E-2859 - Route 35 from Burns Lake Bridge to Route 16, Burns Lake, lighting installation		23,422.67	
E-2888 - Route 16, Burrard Avenue to Smedley Road, Vanderhoof, lighting installation		43,633.10	92,003.70
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2804			
-Bearhead Road 4	1,357.00		
-Borth Road 587	805.00		
-Derksen Road 26	3,075.00		
-Dog Creek Road 41	347.50		
-Engen Road 29	2,525.00		
-Fawcett Road 54	438.00		
-Francois Lake Road 42	6,406.40		
-George Road	582.00		
-Giesbrecht Pit Road 214	4,252.00		
-Gravel Pits	326.82		
-Heck Road 60	321.00		
-Hicks Hill Road 438	350.00		
-Hillview Road 434	1,300.00		
-Irwin Road 38	302.00		
-Kenny Dam Road 2	3,063.00		
-Lakes Road	1,282.50		
-Langston Road 466	2,710.00		
-Likely Road 115	1.00		
-Litke Road 588	1.00		
-Mapes Pit Road 76	1,221.00		
-McNolty Road 90	1,634.75		
-Mooney Pit Road 80	1,355.00		
-Redmond Pit Road 77	300.00		
-Sinkut Lake Road 65	1,506.00		
-Stella Road 37	5,064.50		
-Telegraph Road 84	1,263.00		
-Wylie Road 435	3,770.00		
-Yellowhead Highway 27 West	50.00	45,609.47	
P-2805			
-Barrett Hat Road 215	5,164.00		
-East Tchesinkut Lake Road 92	500.00		
-Highway 35, Burns Lake Bridge to Yellowhead Highway 16	1,174.96		
-Kelly Road 219	1.00		
-Petkau Road 86	1.00		
-Vallee Creek Road 389	10,490.00		
-Yellowhead Highway 16	274.37	17,605.33	63,214.80
Municipal Programs Branch:			
Amalgamation Grants			
Project O-2640 - District of Vanderhoof, roads maintenance grant			82,500.00
Secondary Highway Construction and Improvements			
Project V-1639 - 286B, Telkwa Coal Road, Village of Telkwa			4,542.94
Total, Omineca Electoral District			$12,626,738.86

PRINCE GEORGE NORTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,466,841.33
Snow removal			1,132,432.96
Bridge maintenance			103,367.38
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-3008 - Highway 97, Kerry Lake-Davie Lake, right-of-way clearing		79,741.99	
N-0429 - Guardrail Installation		69,941.00	
W-0356 - Fencing Schedule 2 Highways		21,348.88	171,031.87
Construction Branch:			
Project C-0282 - Highway 97, John Hart-Peace River Highway, D.L.8917-Garbitt Tunnel, reconstruction (see also South Peace River)		3,191,624.75	
C-1703 - Foothills Boulevard, Otway Road, North Nechako Road, Prince George, construction(see also Prince George South)		18,798.34	
C-2135 - Highway 97, Bear Lake-Red Rocky,			
-paving	193,999.68		
-reconstruction	496,513.01	690,512.69	3,900,935.78
Bridges and Ferry Landings:			
Day Labour			
B-2262 - Old Fraser River Bridge, major repair (see also Prince George South)			17,117.75
Bridge Branch:			
Project B-1400 - Foothills Road Bridge over Nechako River			46,069.36
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals, -Highway 97-Chief Lake Road to Ferguson Road		208,581.21	
S-0086 - Paving Generally		155,671.74	
S-0087 - Surveys and Investigations		96,878.89	461,131.84
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Bear Lake B.C.R. Underpass, Hart Highway 97		513.89	
-Chief Lake Road to Parsnip River		44,211.00	
-Miscellaneous from Prince George to Northwood Pulpmill access road (see also Prince George South)		54.63	44,779.52
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-John Hart-Peace River Highway through District Lot 3818		435.16	
-Foothills Boulevard at Chief Lake Road intersection		350.00	785.16
Traffic Branch:			
Project E-2864 - 1) Route 39 at Mill Road, MacKenzie, lighting installation 2) Route 2 at 15th Street, Dawson Creek, signal and lighting installation			34,075.95

PRINCE GEORGE NORTH ELECTORAL DISTRICT (continued)

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2804			
-Foreman Road 161		11,185.00	
-Highway 97 - 5th Avenue intersection		252.00	
-John Hart Highway 97, Knell Road to Chief Lake Road		6,532.50	
-John Hart-Peace River Highway 97		1.00	
-Upper Fraser Road 458		13,507.50	31,478.00
Total, Prince George North Electoral District			$7,410,036.90

PRINCE GEORGE SOUTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			5,829,511.27
Snow removal			3,099,037.48
Bridge maintenance			556,986.03
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-2661 - Highway 16,Tete Jaune to Lee Road, drainage improvements		96,010.99	
D-0010 - Rest area upgrading (see also Cariboo and Omineca)		10,000.00	
N-0430 - Guardrail installation		3,628.05	
W-0356 - Fencing Schedule 2 Highways		3,000.00	
W-0357 - Fencing Schedule 2 Highways		11,638.56	
W-0361 - Fencing Schedule 2 Highways		33,995.75	158,273.35
Construction Branch:			
Project C-0698 - Hart Highway 97,5th Avenue Interchange, Prince George		4,900.00	
C-1703 - Foothills Boulevard, Otway Road, North Nechako Road, Prince George, construction(see also Prince George North)		18,798.32	
C-1815 - Highway 16, C.N.R.Overhead approaches			
-Part 1: Highway 97,paving,Fifth Avenue,reconstruction	204,791.65		
Part 2: Highways Maintenance Yard, gravel and paving			
Part 3: Highway 16,C.N.R.Overhead approaches,paving west end of Fraser River Bridge	443,594.96	648,386.61	672,084.93
Roadside Development and Landscape Branch:			
Project D-2709 - 18th Avenue,Highway Yard, Prince George,landscape development			40,362.49

PRINCE GEORGE SOUTH ELECTORAL DISTRICT (continued)

	$	$	$
Bridges and Ferry Landings:			
Day Labour			
Project B-1424 - Miscellaneous bridge repairs (repair all seal joints) (see also Kamloops)		1,504.01	
B-2262 - Old Fraser River Bridge, major repairs (see also Prince George North)		17,117.75	
B-2740 - Dodd Bridge, replace		37,259.88	
B-2741 - Red Mountain Bridge,replace		40,688.73	
B-2748 - Hargreaves Bridge, replace		73,386.97	169,957.34
Bridge Branch:			
Project B-1070 - Swift Creek Bridge, Valemont secondary road		6,970.25	
B-2348 - Patricia Boulevard Overhead, Highway 16		57,484.88	64,455.13
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals,			
-Highway 16,east(Old Highway 97 junction) to Giscome Road	176,182.03		
-Giscome Road from Giscome to Upper Fraser	295,679.03	471,861.06	
S-1678 - Highway 16 (Yellowhead Highway),Lee Road to Fraser River Bridge and miscellaneous roads		4,805,984.42	
S-1727 - Upper Fraser Road		473.00cr	5,277,372.48
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Airport Hill to Taber Lake		34.06	
-Highway 16 Prince George Airport Hill		111,832.33	
-Miscellaneous,from Prince George to Northwood Pulpmill Access Road (see also Prince George North)		54.62	
-Prince George 5th Avenue, interchange with Highway 97		58.78	111,979.79
Highway Safety Branch:			
Project C-0205 - General Safety Works, -Exit road and parking, for view of salmon spawning grounds			5,074.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-1) Canoe River Road 506 through S.E.1/4,D.L.7360,Cariboo District 1.1 km+- 2) Cranberry Lake Road 506 through fractional N.W.1/4,D.L.7365,Cariboo District 0.6 km+-		1,850.00	
-Dore River Road 565 in E.1/2, D.L.894,C.D. 0.8 km+-		1,844.00	
-Mountain View Road 544,through part D.L.3311,Cariboo District 0.84 km+-		1,205.00	
-Through part of Parcel "B",Plan 16278,D.L.8944,Cariboo District, Dore River Road 565		300.00	5,199.00
Traffic Branch:			
Project E-2383 - Route 16 at C.N.R.Overhead approaches,Prince George, lighting installation			4,264.40

PRINCE GEORGE SOUTH ELECTORAL DISTRICT (continued)

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2804			
-Beaverly Road East 322		2,828.00	
-Bircher Road 461		3,398.98	
-Hargreaves Road 522		820.87	
-Isle Pierre Road 303		3,305.90	
-Loseth Road		1.00	
-McBride South Road 557		1.00	
-Mountain View Road 544		5,044.10	
-Raush Valley Road 535		4,335.86	
-Titryn Lane 175		847.85	20,583.56
Total, Prince George South Electoral District			$16,015,141.25

PRINCE RUPERT ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,299,103.89
Snow removal			822,829.77
Bridge maintenance			147,815.38
Ferry maintenance and operations-			
Misty Islands Ferry subsidy		33,000.00	
Prince Rupert Ferry subsidy (Dodge Cove)		15,500.04	
Queen Charlotte Islands Ferry		747,708.99	796,209.03
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Construction Branch:			
Project C-1684 - Yellowhead Highway 16, Tyee C.N.R. Overpass,			
-Inver Creek to Tyee, intermittent paving		2,381.51	
-Construct approaches		6,059,201.52	6,061,583.03
Paving Branch:			
Project S-2887 - Highway 16 at Tyee (3.00 km)			363,154.69
Planning and Engineering Services			
Traffic Branch:			
Project E-2926 - Route 16 (McBride Street) at 3rd Avenue, Prince Rupert, traffic signal and lighting replacement			31,983.37
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2805			
-Lawnhill Road 47			1.00
Total, Prince Rupert Electoral District			$9,522,680.16

RICHMOND ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			942,491.76
Snow removal			56,308.39
Bridge maintenance			331,655.33
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Construction Branch:			
Project C-2410 - Fraser River Crossing (Annacis Island),Highway 99 to Queensborough Bridge, Lulu Island, dredging (see also Delta and New Westminster)		1,186,011.18	
C-2597 - Fraser River Crossing (Annacis Island),Highway 99 to Queensborough Bridge,Boundary Road Overpass approaches, construction (see also New Westminster)		20,880.83	
C-2618 - Fraser River Crossing (Annacis Island),Highway 99 to Queensborough Bridge,Queensborough Bridge approaches,Boundary Road Overpass approaches, sewer and water line relocation(Richmond Connector);Annacis Channel Bridge north approaches, wick drain construction(see also New Westminster)		350,363.95	
C-2619 - Fraser River Crossing (Annacis Island),Highway 99 to Queensborough Bridge,Annacis Channel Bridge,west-south approach,Hamilton Overpass approaches,Howes Overpass approaches,wick drain construction(see also New West minster)		240,784.34	
C-2624 - Fraser River Crossing (Annacis Island),Highway 99 to Queensborough Bridge,Gilley sewer relocation		95,183.18	
C-2625 - Fraser River Crossing (Annacis Island),Highway 99 to Queensborough Bridge,Gilley water-main relocation		1,859.38	
C-2656 - Fraser River Crossing (Annacis Island),Highway 99 to Queensborough Bridge,Queensborough Connector(Queensborough Bridge to Boundary Road),construction (see also New Westminster)		310,811.08	
C-2680 - Fraser River Crossing (Annacis Island),Highway 99 to Queensborough Bridge,supply of dredged material(see also Delta)		393,322.91	
C-2693 - Fraser River Crossing (Annacis Island),East Channel Bridge, north approach embankment, construction		17,087.49	
C-2817 - Fraser River Crossing (Annacis Island),Richmond Connector grading		881,981.64	

RICHMOND ELECTORAL DISTRICT (continued)

	$	$	$
Construction Branch (continued):			
Project C-2900 - Fraser River Crossing (Annacis Island),Mainline,Boundary Road to Richmond Connector,grading		44,444.42	
C-2967 - Fraser River Crossing (Annacis Island), Queensborough area, wick drain construction (see also New Westminster)		104,956.27	
C-2999 - Fraser River Crossing (Annacis Island),Richmond east/west freeway,Jacombs Road approach fills and preload,Sta.138+36 to 138+66,construction		149.08	3,647,835.75
Bridges and Ferry Landings:			
Day Labour			
Project B-2715 - George Massey Tunnel, fan structure repair(see also Delta)			13,431.00
Planning and Engineering Services			
Geotechnical and Materials Engineering Branch:			
Project G-0038 - Fraser River Crossing (Annacis Island), Geotechnical Investigations (see also Delta and New Westminster)			177,667.28
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101 -Deas Tunnel Weigh Scale		381.76	
L-0558 - Fraser River Crossing (Annacis Island),			
-4 Road, Hamilton(Gilley Route)	328,645.14		
-Westminster Highway, Knight Street to Hamilton Road	2,205.56	330,850.70	331,232.46
Traffic Branch:			
Project E-1117 - Route 99 at 5 Road interchange, Richmond, lighting installation			45,668.44
Property Services Branch:			
Rights-of-way and Property Purchases Project P-0599 -Fraser River Crossing (Annacis Island)(see also New Westminster)			3,458,979.80
Total, Richmond Electoral District			$9,006,270.21

ROSSLAND-TRAIL ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,559,175.78
Snow removal			1,367,107.00
Bridge maintenance			86,833.70
Ferry maintenance and operations-Castlegar Ferry			238,233.97

ROSSLAND-TRAIL ELECTORAL DISTRICT (continued)

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project N-0382 - Guardrail installation			34,000.00
Construction Branch:			
Project C-2995 - Syringa-Deer Creek Park, Forest Roads			6,863.00
Bridges and Ferry Landings:			
Day Labour			
Project B-2244 - Beaver Creek Bridge 2, replace with culvert			50,000.00
Bridge Branch:			
Project B-0566 - C.P.R.Underpass,Highway 22,Trail-Tadanac, relocation			68,854.77
Paving Branch:			
Project S-1824 - Highways 3, 3A, 3B and 6 in Nelson area,miscellaneous paving (see also Nelson-Creston)			782.37
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Castlegar interchange		1,973.69	
-Highway 3A from Glenmerry to Montrose		16,176.25	
-Highway 3A from Tadanac to Trail		2,745.45	
-Minor road surveys		200.00	21,095.39
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2803			
-Ballard Avenue 239		1,980.00	
-Castlegar-Nelson Highway 3A		1,240.00	
-Crowsnest Highway		11,610.00	
-Debruyn Road 91		1,852.00	
-Faulkner Road 105		2,487.00	
-Hudu Creek Road 104		4,287.50	
-Mill Road 88		415.00	
-Oberg-Johnson Road 34		982.50	
-Pass Creek Road 260		18,471.00	
-Southern Trans Provincial Highway 3, Kinnaird interchange		202.95	
-Statt's Road 93		7,530.00	51,057.95
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-0730 - 129B, Columbia Gardens Road, Village of Fruitvale		11,900.00	
V-1136 - 285B, Warfield Hill Road, City of Trail		18,500.00	30,400.00
Total, Rossland-Trail Electoral District			$3,514,403.93

SAANICH AND THE ISLANDS ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,316,089.77
Snow removal			267,724.00
Bridge maintenance			41,164.67

SAANICH AND THE ISLANDS ELECTORAL DISTRICT (continued)

HIGHWAY CONSTRUCTION AND IMPROVEMENTS	$	$	$
Roads:			
Day Labour			
Project C-3028 - Trans Canada Highway 1 at Wilkinson Road, closure of intersection		26,202.91	
N-0396 - Guardrail installation		5,523.00	31,725.91
Construction Branch:			
Project C-0408 - Clanton Road extension, Galiano Island, reconstruction and paving		683.64	
C-1711 - Part B - McKenzie Avenue extension, Burnside Road to Douglas Street Part C - Swan Creek Bridge, construction Part D - Carey Road pedestrian overpass construction		1,644,565.85	1,645,249.49
Roadside Development and Landscape Branch:			
Project D-2654 - McKenzie Avenue extension, Burnside Road to Douglas Street, landscape development			348,019.11
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1733 - Interurban overpass, McKenzie Avenue			59,229.72
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Durrance Lake Road relocation (Hartland Road-Durrance Lake)		29,862.34	
-Pat Bay Highway, Beacon Avenue interchange		1,142.25	31,004.59
Highway Safety Branch:			
Project C-0205 - General Safety Works, -Saltspring Island, Ganges-Fulford, sight distance improvements			10,264.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Clanton Road in part of remainder of Parcel A, Plan 1984-R of Lot 26, Galiano Island		1,000.00	
-E.10 Chains, Fractional S.W.1/4, Sec.12, Mayne Island, Cowichan District (Port Comfort Road)		512.00	
-For Plan of Statutory Right-of-way through Lots 16 and 17, Section 109, Lake District (Falaise Crescent)		450.00	
-Highway widening through part of lot 1, Plan 14673, Sections 83 and 15A, Victoria District		600.00	
-Through Lot A, Plan 2947, Section 19, Range 4 East, North Salt Spring Island		577.00	
-Through Parts of Section 15, Pender Island, Cowichan District		700.00	3,839.00
Traffic Branch:			
Project E-1804 - Route 17,McKenzie Avenue extension, Saanich signal and lighting installation			38,113.95

SAANICH AND THE ISLANDS ELECTORAL DISTRICT (continued)

	$	$	$
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2806			
-Baker Road		1.00	
-McKenzie Avenue extension		2,786.15	2,787.15
Total, Saanich and the Islands Electoral District			$4,795,211.36

SHUSWAP-REVELSTOKE ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			5,146,572.44
Snow removal			3,202,789.70
Bridge maintenance			501,936.92
Ferry maintenance and operations-			
Shuswap Lake Ferry subsidy		26,400.00	
Upper Arrow Lakes Ferry		1,504,471.62	1,530,871.62
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project N-0374 - Guardrail installation		67,645.00	
N-0375 - Guardrail installation		10,128.00	
N-0388 - Guardrail installation		55,985.67	
W-0345 - Fencing Schedule 2 Highways		78,000.00	
W-0346 - Fencing Schedule 2 Highways		22,422.78	234,181.45
Construction Branch:			
Project C-2445 - Sicamous drainage system		9,034.87	
C-2627 - Employee benefits,Hydro Roads		4,816.64	13,851.51
Bridges and Ferry Landings:			
Day Labour			
Project B-2291 - Chase Bridge, pier repairs		30,000.00	
B-2721 - Rivers Bridge, construct box beam bridge		41,308.89	
B-2722 - Hautala Bridge, replace with pipe arch		37,994.38	
B-2738 - Greely Bridge, replace timber approach span		38,846.90	148,150.17
Bridge Branch:			
Project B-0551 - Enderby Bridge over Shuswap River, Mabel Lake Road		444,937.94	
B-2649 - Pritchard Bridge, Pinantan Road		420,892.69	865,830.63
Ferries Construction and Improvements:			
Project H-2407 - M.V.Galena, replace engines and generators			461,899.87

SHUSWAP-REVELSTOKE ELECTORAL DISTRICT (continued)

	$	$	$
Paving Branch:			
Project S-0084- Miscellaneous Surface Seals,			
-Crushed graded seal aggregate in stockpile at Zickmantle Pit in the Falkland area	733.22		
-Crushed graded seal aggregate in stockpile at Turcotte Pit in the Pritchard area	214.37	947.59	
S-2808 - Highways 1 and 23,miscellaneous paving		123,667.20	124,614.79
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Aerial Photography, Highway 1 Sicamous to Revelstoke		23,621.57	
-Cambie to Malakwa,survey control for mapping		59,843.71	
-Clanwilliam Overhead to Helicopter pad,survey control for mapping		27,567.12	
-Craigellachie to Perry River, survey control for mapping		31,712.12	
-Eagle River Bridge to Camp Creek, survey control for mapping		31,929.58	
-Griffin Lake to Three Valley Lake, survey control for mapping		21,537.49	
-Highway 1, Salmon River to Shuswap Street in Salmon Arm		445.00	
-Highway 97 to Crosier Road Swan Lake junction(see also Okanagan North)		2,598.41	
-Kay Falls to Eagle River Bridge, survey control for mapping		36,051.96	
-Minor road surveys		313.59	
-Sicamous to Solsqua,four laning		67,549.66	303,170.21
Highway Safety Branch:			
Project C-0202 - Roadside Hazard Elimination move 43 utility poles along Hwy.97A, Enderby			15,000.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Kamloops-Shuswap Road 223 through Lot 1, Plan 21468 in S.E.1/4 Sec.26,tp 115 O.D.Y.D.		1,154.12	
-Salmon River Rd.360,through Lot 3, Plan 1714, Section 32, Township 18, Range 10 W6M		550.00	
-Subdivision Plan of Part of E 1/2 of L.S.14,Sec.2,Tp.18,Rge.12,W6M KDYD except plan 29773 (Highway Maintenance Yard, Falkland)		900.00	2,604.12
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2802			
-Back Road 291	1.00		
-Duck Range Road 261	1.00		
-Forest Drive 712	25,109.63		
-Garrett Road 323	1.00		
-Gravel Pits, etc.	961.42		
-Henstridge Road 130	4,617.00		
-Intersection Trans Canada Hwy. & Centennial Drive	1.00		
-Kamloops-Shuswap Road	800.00		
-Notch Hill Road 410	12,000.00		
-Pinantan Road	216.63		
-Rosemond Lake Road	1.00		

SHUSWAP-REVELSTOKE ELECTORAL DISTRICT (continued)

	$	$	$
Property Services Branch: (continued)			
Rights-of-way and Property Purchases			
Project P-2802			
-Seed Frontage Road 700-20	4,001.00		
-Skimikin Road 30	3,817.62		
-Tappen Valley Road	980.00		
-Trans Canada Highway - Sicamous	75,000.00		
-Trans Canada Hwy.and Shuswap Street intersection	4,080.00		
-Wheeler Road 321	1.00		
-Yankee Flats Road 363	4,000.00	135,589.30	
P-2803			
-Balfour-Kaslo-Galena Bay, Highway 31	20,200.00		
-Galena Bay Ferry approach	2,559.00		
-Trans Canada Highway 1	1,283.00	24,042.00	159,631.30
Municipal Programs Branch:			
Amalgamation Grants			
Project O-1301 - City of Revelstoke			150,000.00
Secondary Highway Construction and Improvements			
Project V-0738 - 229B, Old Trans Canada Hwy.(Chase business route), Village of Chase		768.39	
V-2492 - 295B, Victoria Road, Railway Avenue, 4th Street, Townley St. and Revelstoke East access,City of Revelstoke		129,495.34	
V-2955 - 272B, Pleasant Valley Rd. and Smith Drive,City of Armstrong		125,705.28	
V-3001 - 125B, Cliff Street, City of Enderby		45,360.00	
V-3029 - 153B, Pleasant Valley Hwy. Township of Spallumcheen		1,089.46	
V-3030 - 171B,Armstrong-Salmon River Hwy.,Township of Spallumcheen		5,764.50	308,182.97
HYDRO DEVELOPMENT - HIGHWAY CONSTRUCTION			
Roads:			
Construction Branch:			
Project C-2354 - Highway 23,Revelstoke-Mica Highway relocation, km 37, B. C. Hydro relocation		476.53	
C-2417 - Highway 23,Revelstoke-Mica Highway relocation, slide monitoring and slide repairs		27,251.61	
C-2418 - Highway 23,Revelstoke-Mica Highway relocation, road relocation		20,761.69	
C-2659 - Highway 23,Revelstoke-Mica Highway relocation, km 29, berm placement		23,619.89	
C-3031 - Highway 23,Revelstoke-Mica Highway relocation, Nakusp-Fauquier Section(access to W.H.Mole property)		30,073.00	
C-3936 - Highway 23,Revelstoke-Mica Highway relocation, construction Revelstoke to Mica Sta.840+52.08 to Sta.908+68.366		60,164.59	
C-3962 - Highway 23,Revelstoke-Mica Highway relocation, Downie Creek to Mica Creek Townsite Section Sta. 1255+44.263 to Sta.1325+90.713		20,010.20	182,357.51
Geotechnical and Materials Engineering Branch:			
Project G-0428 - Highway 23,Revelstoke-Mica Highway relocation, geotechnical investigations			20,431.50

SHUSWAP-REVELSTOKE ELECTORAL DISTRICT (continued)

	$	$	$
Highway Design and Surveys Branch:			
Project L-3889 - Highway 23, Revelstoke-Mica Highway relocation, Revelstoke Dam site to LaForme Creek Section 1, 8.0km to 27.5km		16.80	
L-3890 - Highway 23, Revelstoke-Mica Highway relocation, LaForme Creek to Downie Creek Section 2		322.93	
L-3891 - Highway 23, Revelstoke-Mica Highway relocation, Goldstream Cr. to Mica Village Section 3		289.50	629.23
Bridges:			
Bridge Branch:			
Project B-1079 - Highway 23, Revelstoke-Mica Highway relocation, Downie Creek Bridge			4,147.29
Paving Branch:			
Project S-2808 - Highways 1 and 23, miscellaneous paving			78,915.23
Total, Shuswap-Revelstoke Electoral District			$13,455,768.46

SKEENA ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			5,402,492.59
Snow removal			1,977,892.12
Bridge maintenance			394,410.14
Ferry maintenance and operations- Usk Ferry			127,000.00
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project D-1555 - Rest area upgrading		41,107.05	
N-0391 - Guardrail installation		74,918.08	
N-0392 - Guardrail installation		1,572.12	
W-0363 - Fencing Schedule 2 Highways		11,965.50	129,562.75
Construction Branch:			
Project C-1723 - Cassiar Highway 3, Cranberry Crossing 1 to Derrick Creek, grading			2,928,256.11
Bridges and Ferry Landings:			
Day Labour			
Project B-2753 - Fulton Canyon and Chicken Creek Bridges, concrete deck overplays			28,084.13
Bridge Branch:			
Project B-1076 - Kasiks Overhead, Yellowhead Highway, five span steel plate girder bridge		29,999.53	
B-1381 - Kitwancool Bridge, Kitwancool Access Road		549,731.13	579,730.66

SKEENA ELECTORAL DISTRICT (continued)

	$	$	$
Paving Branch:			
Project S-0086 - Paving Generally		28,881.80	
S-0087 - Surveys and Investigations		162,346.96	
S-1705 - Highway 37, Kitwancool-North (41.8km), Kitwancool accesses (7.7km)(see also Atlin)		27,043.14	
S-1707 - Highway 16, Kenny Street to Eby Street, storm sewer, curb and gutter,and paving miscellaneous streets,Thornhill area		4,502.33	
S-1721 - Yellowhead Highway 16, Backwater Creek - Kasiks Creek		1,496.36	
S-1763 - Kalum Lake Road		3,991,032.27	
S-1765 - Highway 16 and miscellaneous Smithers roads(see also Omineca)		3,730.64	4,219,033.50
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Carnaby Crossing to Kitsequeda, Yellowhead Highway 16 west		51,147.89	
-Highway 16, Exchamsiks River to D.L.5841		410.96	
-Khyex River to Aberdeen Creek		67,990.81	
-Smithers-Telkwa Sec.2 Region 4		1,006.10	
-Terrace to Nass River Road,Cedar River to Tseax junction (see also Atlin)		94,012.19	214,567.95
Highway Safety Branch:			
Project C-0202 - Roadside Hazard Elimination, -Shoulder preperation and pave for guardrail, Highway 37, Terrace to Kitimat			9,753.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Through Part of D.L.4266, Range 5, C.D., Dahlie Road 0.5 km +-		1,994.00	
-Yellowhead Highway 16, S.Bdy.,L873, to N.Bdy.,L1123,Rge.5 C.D.6.7km+-, Palmeson Road		12,062.20	14,056.20
Traffic Branch:			
Project E-2307 - Route 97,Penticton Channel Parkway,Section 11 (Fairview Road to West Bench Drive)Penticton, signal and lighting installation		11,667.88	
E-2860 - Route 37 at Terrace Airport Access Road, Terrace, lighting installation		4,635.00	16,302.88
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2805			
-Carnaby Crossing to Kitsequecla River		14,730.00	
-Churchill Drive 74		302.00	
-Eckman Road 60		4,673.00	
-Hastings Street 102		1,467.00	
-Hazelton-Kitwanga Road 113		5,758.70	
-Hudson Bay Mountain Road 35		1,150.00	
-Jollymore Road 11		1.00	
-Kalum Lake Road 3		14,273.94	
-Kitimat Village Road 200		89.00	
-Krumm Avenue 11		150.00	
-Old Remo Road 7		460.00	
-Palmeson Road 109		2,025.00	
-Sunnyside Avenue 251		840.00	
-Yellowhead Highway 16		5,425.00	51,344.64

SKEENA ELECTORAL DISTRICT (continued)

	$	$	$
Municipal Programs Branch:			
Amalgamation Grants			
Project O-0927 - New Hazelton, maintenance of annexed area			30,000.00
Total, Skeena Electoral District			$16,122,486.67

SOUTH PEACE RIVER ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			4,309,356.04
Snow removal			2,617,048.00
Bridge maintenance			197,139.18
Ferry maintenance and operations- Clayhurst Ferry			373,200.50
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project N-0431 - Guardrail installation		39,940.90	
W-0358 - Fencing Schedule 2 Highways		45,174.05	85,114.95
Construction Branch:			
Project C-0282 - Highway 97, John Hart-Peace River Highway, D.L.8917-Garbitt Tunnel, reconstruction (see also Prince George North)		3,191,624.69	
C-0746 - Northeast Coal Development Access Highway, Upper Martin Creek to Gwillim Lake		312,913.28	
C-0748 - Northeast Coal Development Access Highway, Bullmoose Creek to Tumbler Ridge West Sta.151+00 - Sta.345+70		608,893.12	4,113,431.09
Bridges and Ferry Landings:			
Day Labour			
Project B-2743 - McRae Bridge, replace with multi-plate		26,343.69	
B-2744 - Flatbed Bridge, widen		142,093.96	168,437.65
Bridge Branch:			
Project B-0975 - Northeast Coal Development Access Highway, Bullmoose Creek Bridge and Bullmoose Flats Bridge		803.00	
B-0977 - Northeast Coal Development Access Highway, Murray River Bridge		4,033.83	
B-1393 - Northeast Coal Development Access Highway,Twidwell Bend Bridge		8,032.45	12,869.28
Paving Branch:			
Project S-0086 - Paving Generally		229.57	
S-0087 - Surveys and Investigations		31,206.54	
S-1750 - Alaska Highway 97,North Kiskatinaw northward to Road 269, asphalt surfacing(see also North Peace River)		1,875.00	

SOUTH PEACE RIVER ELECTORAL DISTRICT (continued)

	$	$	$
Paving Branch: (continued)			
Project S-1812 - Northeast Coal Development Access Highway, Chetwynd-Tumbler Ridge Highway, Martin Creek-Gwillim Lake Park boundary		1,923,173.28	
S-1813 - Northeast Coal Development Access Highway, Chetwynd-Tumbler Ridge Highway, Gwillim Lake Park boundary - Bullmoose Creek		1,863,287.69	
S-1814 - Northeast Coal Development Access Highway, Chetwynd-Tumbler Ridge Highway, Bullmoose Creek-Babcock Plant		1,220,596.49	5,040,368.57
Planning and Engineering Services			
Geotechnical and Materials Engineering Branch:			
Project G-1364 - Northeast Coal Development Access Highway projects			28,251.35
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Clayhurst Bridge site		77.50	
-Hart Highway 97 from Pine Pass to West Pine Bridge		177,433.21	
-Heritage Highway Surveys		51,962.04	229,472.75
Highway Safety Branch:			
Project C-0203 - Intersection Improvements and shoulder widening, -Dawson Creek Ball Park Entrance and entrance to Pouce Coupe Hospital		14,994.82	
C-0204 - School Route Improvements, School bus turnarounds		9,360.87	
C-0205 - General Safety Works, -Installation of two directional amber flashing lights at East Pine Bridge		9,286.69	33,642.38
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Cowie Creek Road 27 in D.L.'s 2466, 2406,2407, 895 and U.C.L.,P.R.D. 4.1 km+-			4,670.03
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2804			
-Heritage Highway 52		3,951.59	
-New John Hart-Peace River Highway		3,700.00	
-Road 53		1.00	
-Road 213		3,489.00	
-Road 221		4,455.25	15,596.84
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-0675 - 196B, Eighth Street, City of Dawson Creek			50,399.03
Total, South Peace River Electoral District			$17,278,997.64

SURREY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			1,345,210.50
Snow removal			220,181.12
Bridge maintenance			135,024.09
Ferry maintenance and operations–Barnston Island Ferry			365,984.49
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-2875 – King George Highway and 152nd Street, installation of pedestrian overpass		60,000.00	
N-0370 – Guardrail installation		25,000.00	
W-0793 – Fencing Schedule 2 Highways		29,000.00	114,000.00
Roadside Development and Landscape Branch:			
Project D-2893 – Expo 86, promotional floral displays (6 sites) (see also Chilliwack and Delta)			54,052.33
Bridges and Ferry Landings:			
Bridge Branch:			
Project B-1420 – Pattullo Bridge retrofitting, south approach bearing replacement (see also New Westminster)			400,988.44
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally – Project L-0101			
-Scott Road from Highway 1 to Highway 10 (see also Delta)		19,478.48	
-Scott Road, Old Yale Road to 96th Avenue (see also Delta)		10,850.97	
-South end of Pattullo Bridge		101.55	
-Whitehouse Corner–152nd.Street 4 laning (Fraser Highway)		7,450.91	37,881.91
Highway Safety Branch:			
Project C-0202 – Roadside Hazard Elimination, -Metal barrier protection of freeway bridge piers (see also Delta)			33,358.40
Traffic Branch:			
Project E-0810 – Route 10(56th Avenue) at 180th Street, Surrey, intersection improvements, signal and lighting revisions		65,967.01	
E-2372 – Route 1A at 64th Street, Surrey, traffic signal and lighting revision		61,018.63	
E-2447 – Scott Road at 96th,Surrey/Delta, traffic signal revision (see also Delta)		6,826.29	
E-2623 – Scott Road (120th Street) at 76A Avenue (see also Delta)		10,182.41	
E-2691 – Route 1A (Fraser Highway) at 88th Avenue (Davis Road),Surrey, signal and lighting replacement		143,767.63	
E-2916 – Route 1A at 96th Avenue, Surrey, traffic signal and lighting installation		20,512.29	

SURREY ELECTORAL DISTRICT (continued)

	$	$	$
Traffic Branch (continued):			
Project E-2958 - Routes 1, 17 and 99, illumination of expo 86, floral displays (various locations) (see also Delta and Langley)		1,799.82	310,074.08
Property Services Branch:			
Rights-of-way and Property Purchases			
Project - P-2801			
-Fraser Highway and 88th Avenue intersection		134,160.00	
-Highway 10 - 180th Street, Surrey		15,000.00	
-King George Highway, 96th Avenue-62nd Avenue		131,954.34	
-Pacific Highway, 1st Avenue to 32nd Street		51,113.07	
-Scott Road and Bridge Road, Pattullo Bridge approach; Old Yale Road, King George Highway		12,036.40	
-Trans Canada Highway, Port Mann to Halls Prairie		142.41	344,406.22
Municipal Programs Branch:			
Secondary Highway Construction and Improvements			
Project V-2990 - 149B, Marine Drive, City of White Rock		33,151.17	
V-3063 - 151B, Marine Drive, Stevenson Road and Crescent Road, District of Surrey		10,120.00	43,271.17
Total, Surrey Electoral District			$3,404,432.75

VANCOUVER CENTRE ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			378,800.19
Snow removal			24,733.02
Bridge maintenance			13,655.77
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Lions Gate Bridge,south approach			7.83
Traffic Branch:			
Project E-2932 - Route 1A and 99, Lions Gate Bridge, decorative lighting (see also North Vancouver-Capilano)			7,806.96
Total, Vancouver Centre Electoral District			$425,003.77

VANCOUVER EAST ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			184,326.03
Snow removal			40,522.03
Bridge maintenance			29,250.07
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Planning and Engineering Services Highway Design and Surveys Branch: Surveys Generally - Project L-0101 -Cassiar Street			48,978.53
Total, Vancouver East Electoral District			$303,076.66

VANCOUVER-POINT GREY ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			236,288.66
Snow removal			24,609.43
Total, Vancouver-Point Grey Electoral District			$260,898.09

VANCOUVER SOUTH ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			69,947.11
Snow removal			2,118.69
Bridge maintenance			21,772.24
Total, Vancouver South Electoral District			$93,838.04

VICTORIA ELECTORAL DISTRICT

	$	$	$
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Paving Branch: Project S-0086 - Paving Generally, -Highway 1: Douglas Street,Tolmie to Saanich Road (0.6 km) and north of Thetis Overpass(0.4 km) (see also Esquimalt-Port Renfrew)			45,535.32
Total, Victoria Electoral District			$45,535.32

WEST VANCOUVER-HOWE SOUND ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			2,469,560.24
Snow removal			902,755.23
Bridge maintenance			210,298.82
Ferry maintenance and operations– Woodfibre Ferry			14,973.23
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-2698 - Garibaldi Highway 99 (Squamish Highway), Newman Creek, debris torrent control basin		72,458.17	
C-2704 - Garibaldi Highway 99 (Squamish highway), relocation of power poles north of Horseshoe Bay		15,000.00	
C-2848 - Garibaldi Highway 99 (Squamish Highway), Alberta Creek, improvements		19,552.93	
C-3025 - Garibaldi Highway 99 (Squamish Highway), miscellaneous pavement patching		42,900.00	
D-1552 - Rest area upgrading		6,284.50	
N-0368 - Guardrail installation		75,000.00	
W-2238 - Fencing Schedule 2 Highways		23,191.15	254,386.75
Construction Branch:			
Project C-2593 - Garibaldi Highway 99 (Squamish Highway), Harvey Creek and Magnesia Creek, debris torrent control facility, including relocation of Lion's Bay water supply		6,908,465.22	
C-2594 - Garibaldi Highway 99 (Squamish Highway), Charles Creek, debris torrent control facility		2,841,889.47	9,750,354.69
Bridges and Ferry Landings:			
Day Labour			
Project B-2714 - Mosquito Creek Bridge, galvanize fence (see also North Vancouver–Capilano and North Vancouver–Seymour)			3,113.81
Bridge Branch:			
Project B-2452 - Garibaldi Highway 99 (Squamish Highway), Montizambert Creek Bridge		1,107,143.65	
B-2456 - Garibaldi Highway 99 (Squamish Highway), bridge insurance premiums		11,019.00	
B-2592 - Wilkinson Bridge, Trans Canada Highway, sidewalk improvements		97,346.86	
B-2645 - Garibaldi Highway 99 (Squamish Highway), Charles Creek, bridge repair		88,988.51	
B-2646 - Garibaldi Highway 99 (Squamish Highway), Magnesia Creek Bridge		446,487.36	1,750,985.38
Ferries Construction and Improvements:			
Project H-2667 - Bare Boat Charter, M. V. Garibaldi II, Woodfibre			165,000.00

WEST VANCOUVER-HOWE SOUND ELECTORAL DISTRICT (continued)

	$	$	$
Planning and Engineering Services			
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Garibaldi Highway 99(Squamish Highway),design proposals for debris torrent control facilities, Harvey, Alberta, Magnesia and Charles Creek		486,848.10	
-Garibaldi Highway 99(Squamish Highway),Horseshoe Bay to Newman Creek		225,520.02	
-Garibaldi Highway 99(Squamish Highway),"M" Creek to Porteau Cove		85,871.62	
-Garibaldi Highway 99(Squamish Highway),Newman Creek to "M" Creek		304,741.38	
-Garibaldi Highway 99(Squamish Highway),Porteau Cove to Brittania		24,435.03	
-Garibaldi Highway 99(Squamish Highway),Squamish to Cheekye		3,410.05	
-Minor road surveys		803.00	1,131,629.20
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-Through part of D.L.'s 213 and 204, Lillooet District 1.0 km+-, Pemberton Portage Road			3,679.95
Traffic Branch:			
Project E-2895 - Route 99 at Village Gate Boulevard, Whistler, signal and lighting installation		26,078.95	
E-2982 - Garibaldi Highway 99 (Squamish Highway)at Squamish Access Road, traffic signal revision		8,296.70	34,375.65
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2801			
-Cheakamus Indian Reserve No.11		15.32	
-Garibaldi Highway 99 (Squamish Highway),Harvey Creek,debris torrent control facility		279,330.00	
-Garibaldi Highway 99 (Squamish Highway),Newman Creek, channel diversion		5,200.00	
-Garibaldi Highway 99 (Squamish Highway),Horseshoe Bay to Britannia Beach,Sunset Point Intersection		1,800.00	
-Garibaldi Highway 99 (Squamish Highway),Horseshoe Bay-Squamish, Furry Creek		6,700.00	
-Garibaldi Highway 99 (Squamish Highway),Lion's Bay		671,325.75	
-Garibaldi Highway 99 (Squamish Highway),Magnesia Creek debris control structure		25,235.00	
-Pemberton-Lillooet River Bridge, site and approaches		20,116.00	1,009,722.07
B. C. RAILWAY			
Project U-2992 - Replace Newman Creek Railway Bridge			800,000.00
Total, West Vancouver-Howe Sound Electoral District			$18,500,835.02

YALE-LILLOOET ELECTORAL DISTRICT

	$	$	$
HIGHWAY MAINTENANCE			
Road maintenance			7,343,015.03
Snow removal			4,294,210.13
Bridge maintenance			401,601.67
Ferry maintenance and operations-			
Lytton Ferry		274,603.55	
North Bend Ferry		354,500.00	629,103.55
HIGHWAY CONSTRUCTION AND IMPROVEMENTS			
Roads:			
Day Labour			
Project C-0476 - Meadow Creek Road,Kamloops to Logan Lake,construction		574,783.10	
C-2705 - Coquihalla Highway, Hope-Merritt Section, Boston Bar Creek, Portia to Summit,access road improvements		50,000.00	
C-2780 - Coquihalla Highway, Hope-Merritt Section, between Brookmere Road and Juliet Creek		297,694.81	
C-2823 - Coquihalla Highway,Highway 5 Offsite Section, Highway 5 Junction at Douglas Lake Road, Realignment		130,947.65	
C-2824 - Coquihalla Highway,Highway 5 Offsite Section, Highway 5 at Nicola Lake Rock Bluffs, realignment		1,399,856.71	
C-2908 - Coquihalla Highway,Highland Valley Offsite Section,Meadow Creek Road, slope stabilisation		53,197.49	
C-2909 - Coquihalla Highway,Highway 8 Offsite Section, 3 Mile Bridge on Highway 8, construction of approaches		24,252.03	
C-2910 - Coquihalla Highway,Highland Valley Offsite Section, Highland Valley Road,Ashcroft, reconstruction		147,688.19	
C-2911 - Coquihalla Highway,Highland Valley Offsite Section, Highland Valley Road,Ashcroft, reconstruction Barnard Creek and Suicide Corner		1,292,355.38	
C-2930 - Coquihalla Highway,Highway 8 Offsite Section,approaches to Curnow Bridge		48,059.45	
D-1552 - Rest area upgrading		29,327.65	
D-1553 - Rest area upgrading		7,393.45	
N-0371 - Guardrail installation		38,933.00	
N-0373 - Guardrail installation		10,963.45	
N-0378 - Guardrail installation		50,135.75	
N-0379 - Guardrail installation		59,198.40	
W-0348 - Fencing Schedule 2 Highways		17,586.46	
W-0349 - Fencing Schedule 2 Highways		104,748.85	
W-0350 - Fencing Schedule 2 Highways		73,032.75	4,410,154.57
Construction Branch:			
Project C-0579 - Coquihalla Highway, Hope-Merritt Section,Dry Gulch-Mine Creek		770,610.82	
C-0760 - Coquihalla Highway, Hope-Merritt Section,Peers Creek-Ten Mile Creek,construction,Nicolum Creek to Peers Creek, gravelling		8,329,043.59	

YALE-LILLOOET ELECTORAL DISTRICT (continued)

		$	$	$
Construction Branch: (continued)				
Project	C-2662 - Coquihalla Highway, Abbotsford-Hope Section, Floods to Hope, construction		10,362,315.01	
	C-2663 - Coquihalla Highway, Hope-Merritt Section, Ten Mile Creek-Sowaqua Creek, construction		7,578,893.11	
	C-2683 - Coquihalla Highway, Hope-Merritt Section, Sowaqua Creek-Ladner Creek, construction		5,784,298.41	
	C-2688 - Coquihalla Highway, Hope-Merritt Section, Lear Creek-11 Mile Creek, detour construction		722,984.04	
	C-2694 - Coquihalla Highway, Hope-Merritt Section, Mine Creek to Juliet Creek, grade construction, (5.95 km) drainage and gravelling		4,939,594.10	
	C-2768 - Coquihalla Highway, Hope-Merritt Section, Hope to Nicolum Creek, clearing and grubbing		289,817.67	
	C-2772 - Coquihalla Highway, Hope-Merritt Section, crushing of base aggregate from Juliet Creek Pit		593,393.03	
	C-2781 - Coquihalla Highway, Hope-Merritt Section, production of aggregates from Coldwater Pit		264,998.34	
	C-2782 - Coquihalla Highway, Hope-Merritt Section, production of aggregates from Shylock Pit		1,784,491.98	
	C-2783 - Coquihalla Highway, Hope-Merritt Section, production of aggregates from Rusty Pit, Coldwater Valley		313,992.15	
	C-2810 - Coquihalla Highway, Hope-Merritt Section			
	-Concrete arch construction	466,914.42		
	-Portia to Miranda, 36.1 km to 39.1 km	2,787,763.40	3,254,677.82	
	C-2811 - Coquihalla Highway, Hope-Merritt Section, Miranda to Box Canyon, 39.1 km to 42.8 km		3,090,834.08	
	C-2812 - Coquihalla Highway, Hope-Merritt Section, Box Canyon to Great Bear 5, 42.8 km to 45.8 km		5,184,963.79	
	C-2813 - Coquihalla Highway, Hope-Merritt Section, Great Bear 5 to Summit, 45.8 km to 50.8 km		5,616,247.84	
	C-2816 - Coquihalla Highway, Hope-Merritt Section, production of aggregates from Godey Pit		1,656,237.43	
	C-2825 - Coquihalla Highway, Hope-Merritt Section, Juliet Creek-Coldwater Crossing 3, grading		3,521,551.59	
	C-2827 - Coquihalla Highway, Hope-Merritt Section, crushing of base coarse aggregate from Brodie Pit		697,049.89	
	C-2831 - Coquihalla Highway, Hope-Merritt Section, Larson Hill to Coldwater Crossing 6, 84.6 km to 89.35 km, clearing, grubbing, and grading		2,722,459.68	
	C-2834 - Coquihalla Highway, Hope-Merritt Section, Coldwater Crossing 6 to Power Line Crossing, 89.35 km to 95.6 km, clearing, grubbing, and grading		2,880,912.18	

YALE-LILLOOET ELECTORAL DISTRICT (continued)

	$	$	$
Construction Branch (continued):			
Project C-2835 - Coquihalla Highway, Hope-Merritt Section, Power Line Crossing to Glenwalker, 95.6 km to 105.9 km,clearing and grubbing		188,434.30	
C-2837 - Coquihalla Highway,Highway 5 Offsite Section, Trans Mountain Pipeline to Highway 5 Interchange, 116.0 km to 118.9 km, clearing, grubbing, and grading		1,254,799.50	
C-2838 - Coquihalla Highway,Merritt-Kamloops Section, Merritt Bypass, 5.0 km, clearing, grubbing, and grading		3,590,688.99	
C-2839 - Coquihalla Highway, Hope-Merritt Section, Kwinshatin Creek to Trans Mountain Pipeline,116.0 km to 118.9 km,clearing,grubbing, and grading		973,815.14	
C-2840 - Coquihalla Highway, Hope-Merritt Section, Salem Creek to Glenwalker, grading, 100.8 km to 105.9 km		1,218,676.85	
C-2841 - Coquihalla Highway, Hope-Merritt Section, Glenwalker to Kwinshatin Creek, 105.9 km to 109.4 km,clearing,grubbing,and grading		2,138,568.23	
C-2843 - Coquihalla Highway, Hope-Merritt Section,Compressor Station to Salem Creek, 98.6 km to 100.8 km, grading		1,229,729.62	
C-2844 - Coquihalla Highway, Hope-Merritt Section,Powerline Crossing to Compressor Station, 95.6 km to 98.6 km, grading		929,153.77	
C-2851 - Coquihalla Highway, Hope-Merritt Section,Coldwater Crossing 3 to Larson Hill, 77.8 km to 84.6 km,clearing and grubbing		488,730.40	
C-2852 - Coquihalla Highway, Hope-Merritt Section,Coldwater Crossing 3 to Larson Hill, 77.8 km to 84.6 km, grading		1,902,063.64	
C-2853 - Coquihalla Highway, Hope-Merritt Section,Ladner to Shylock, grading, clearing, and grubbing		798,557.02	
C-2854 - Coquihalla Highway, Hope-Merritt Section,Shylock to Portia, clearing, grubbing, and grading		2,099,019.15	
C-2871 - Coquihalla Highway, Hope-Merritt Section,Hope to Nicolum Creek, Highway 3, 4.4 km		2,242,998.56	
C-2878 - Coquihalla Highway,Merritt-Kamloops Section,Upper Nicola to Surrey Lakes,Tote Road construction		229,792.30	
C-2889 - Coquihalla Highway, Hope-Merritt Section, guardrail production		306,727.64	
C-2891 - Coquihalla Highway,Merritt-Kamloops Section,Merritt to Shuta Creek, 0 km to 10 km,clearing and grubbing		113,606.49	
C-2904 - Coquihalla Highway, Hope-Merritt Section, filter cloth purchase		149,768.34	
C-2917 - Coquihalla Highway, Hope-Merritt Section, avalanche works generally		248,827.06	
C-2944 - Coquihalla Highway, Hope-Merritt Section,winter maintenance		477,383.97	

YALE-LILLOOET ELECTORAL DISTRICT (continued)

	$	$	$
Construction Branch (continued):			
Project C-3064 - Coquihalla Highway, Hope-Merritt Section, post construction environmental monitoring		989.00	
C-3760 - Coquihalla Highway, Hope-Merritt Section, Nicolum Creek to Peers Creek (3.0 miles)		75,224.00	91,016,920.52
Bridges and Ferry Landings:			
Day Labour			
Project B-2294 - Potatosillihee Bridge, reconstruct box beams		113,186.62	
B-2295 - Blowdown Creek Bridge, reconstruct box beams		91,387.59	
B-2716 - Silver Skagit Bridge, reconstruct		250,000.00	
B-2717 - Roger Creek Bridge, commence reconstruction		11,390.00	465,964.21
Bridge Branch:			
Project B-1358 - Bonaparte River Bridge, Trans Canada Highway, improvements		55,829.92	
B-2347 - Boston Bar Bridge, Boston Bar to North Bend Access	106,523.01		
-Removal, supply, and erection of steelwork	609,865.82		
-Substructure	897,196.04	1,613,584.87	
B-2787 - Coquihalla Highway, Abbotsford-Hope Section, Silverhope Underpass and Floods Underpass		712,282.32	
B-2789 - Coquihalla Highway, Hope-Merritt Section, Nicolum Creek Bridge		146,276.62	
B-2790 - Coquihalla Highway, Abbotsford-Hope Section, Tomberry Road Bridge		414,143.73	
B-2797 - Coquihalla Highway, Hope-Merritt Section, Jessica Bridge		300,631.38	
B-2818 - Coquihalla Highway, Hope-Merritt Section, Dry Gulch Bridge		3,851,499.88	
B-2826 - Coquihalla Highway, Hope-Merritt Section, Deneau Creek Bridge		373,284.07	
B-2828 - Coquihalla Highway, Abbotsford-Hope Section, Hope Overpass and Thacker Creek Overpass		605,006.95	
B-2829 - Coquihalla Highway, Hope-Merritt Section, Peers Bridge		461,234.06	
B-2830 - Coquihalla Highway, Hope-Merritt Section, Portia Bridge		288,609.34	
B-2832 - Coquihalla Highway, Abbotsford-Hope Section, Alexander Creek Bridge		282,018.45	
B-2833 - Coquihalla Highway, Hope-Merritt Section, Dewdney Creek Bridge		346,556.09	
B-2866 - Coquihalla Highway, Highway 8 Offsite Section, Three Mile Bridge		586,845.06	
B-2876 - Coquihalla Highway, Hope-Merritt Section, Ladner Creek Bridge		838,325.52	
B-2879 - Coquihalla Highway, Hope-Merritt Section, Juliet Creek Bridge and Bottletop Bridge		674,067.40	
B-2880 - Coquihalla Highway, Abbotsford-Hope Section, Silverhope Creek Bridge		217,752.58	
B-2881 - Coquihalla Highway, Hope-Merritt Section, Coquihalla Lakes Underpass and Henning Bridge		716,605.80	
B-2882 - Coquihalla Highway, Hope-Merritt Section, Great Bear Snow Shed		213,168.25	

YALE-LILLOOET ELECTORAL DISTRICT (continued)

	$	$	$
Bridge Branch (continued):			
Project B-2884 - Coquihalla Highway, Hope-Merritt Section, Kingsvale Bridge		550,776.79	
B-2885 - Coquihalla Highway, Hope-Merritt Section,Kingsvale Overhead		127,383.23	
B-2886 - Coquihalla Highway,Highway 8 Offsite Section, Carolin Bridge		216,167.79	
B-2898 - Coquihalla Highway,Highway 8 Offsite Section,Curnow Bridge		10,445.85	
B-2899 - Coquihalla Highway,Highway 8 Offsite Section, Rattlesnake Bridge		47,717.39	
B-2935 - Coquihalla Highway,Abbotsford-Hope Section, Jones Hill Underpass		15,833.25	
B-2937 - Coquihalla Highway, Hope-Merritt Section, Ottomite Bridges (2 bridges)		71,334.19	
B-2939 - Coquihalla Highway, Hope-Merritt Section,Murray, Brook,and Brodie Bridges		873,560.46	
B-2959 - Coquihalla Highway,Abbotsford-Hope Section, Popkum Road Underpass,Anderson Creek Bridge 2855,Anderson Creek Bridge 1538, widening		1,397.86	14,613,339.10
Paving Branch:			
Project S-0084 - Miscellaneous Surface Seals,			
-Highway 1-Fraser River Bridge at Hope, north to Merritt Highways District Boundary	691.44		
-Highway 3-Nicolum Creek to Skaist Creek, east of Hope	36,976.14	37,667.58	
S-1687 - Trans Canada Highway 1, intermittent sections between Lake of the Woods and Jackass Mountain		80,468.97	
S-1729 - Highways 1 and 97 in Cache Creek,storm sewer,curb and gutter, and paving		31,833.36	
S-2815 - Coquihalla Highway,Highway 5 Offsite Section,Highway 5,Upper Nicola-Peter Hope Lake Road,(33.10 km)		907,915.07	
S-2861 - Campbell Hill Airport, Cache Creek		160.00	
S-2920 - Coquihalla Highway,Highland Valley Offsite Section,Meadow Creek Road, Logan Lake to Lac Le Jeune		95,650.16	
S-2921 - Coquihalla Highway,Highland Valley Offsite Section, Highland Valley Road,Bethlehem Mine Access Road to Logan Lake		47,295.56	
S-2922 - Coquihalla Highway,Highland Valley Offsite Section, Highland Valley Road,Ashcroft to 26.3 km eastward (18.96 km)		7,382.45	
S-2965 - Coquihalla Highway, Hope-Merritt Section, Nicolum Creek to Ladner Creek (19.5 km)		1,841.22	
S-2973 - Highway 1,American Creek to Gordon Creek and Yale Tunnel (14.10 km), approaches		3,663.89	1,213,878.26

YALE-LILLOOET ELECTORAL DISTRICT (continued)

	$	$	$
Planning and Engineering Services			
Geotechnical and Materials Engineering Branch:			
Project G-2685 - Coquihalla Highway, Hope-Merritt Section, Geotechnical and Materials Engineering		792,540.34	
G-2897 - Coquihalla Highway, Merritt-Kamloops Section, Geotechnical and Materials Engineering		250,343.21	1,042,883.55
Highway Design and Surveys Branch:			
Surveys Generally - Project L-0101			
-Ashcroft Grid Road System	5,340.10		
-Highway 1, south of Yale	1,956.24		
-Highway 3, Rhododendron Flats	3,098.52		
-Kamloops, Highland Valley	17,478.68		
-Lillooet, curb and gutter	127.00		
-Marble Canyon Provincial Park Access	1,764.00		
-Minor road surveys	1,593.50		
-North Bend Bridge Site-Boston Bar	3,832.74		
-Route 8, Merritt-Spences Bridge	33,121.09		
-Southern Trans Provincial Highway 3, 95-101 km	1,290.00		
-Trans Canada Highway 1, Alexandra north to Hells Gate tunnel (truck lane)	70.00		
-Trans Canada Highway 1, Cache Creek-D.L.8 (Lillooet District Boundary)	2,150.00		
-Trans Canada Highway 1, Oregon Jack-North Ashcroft Junction	393.00		
-West Boundary Manning Park to Nineteen Mile Creek	366.00	72,580.87	
L-2696 - Coquihalla Highway:			
-Abbotsford-Hope Section, Floods to Hope	591,338.57		
-Highland Valley Offsite Section, Meadow Creek Road to Stake Lake	93,985.14		
-Highland Valley Offsite Section, Sussex Lake to Meadow Creek Road	43,784.71		
-Highway 5 Offsite Section, Glenwalker-Highway 5 Interchange	559,038.58		
-Highway 5 Offsite Section, Highway 5 at Nicola Lake, redesign "Rock Bluffs" area	42,786.93		
-Highway 5 Offsite Section, Highway 5, Merritt-Kamloops	24,650.86		
-Hope-Merritt Section, 4 Mile Corner-Nicolum Creek, Highway 3	84,116.80		
-Hope-Merritt Section, Box Canyon-Summit	571,436.45		
-Hope-Merritt Section, Coldwater Crossing 3 to Larson Hill	311,374.58		
-Hope-Merritt Section, Coquihalla general	842,683.64		
-Hope-Merritt Section, Hope to Nicolum Creek	170,510.80		
-Hope-Merritt Section, Ladner to Portia	724,921.51		
-Hope-Merritt Section, Larson Hill-Power Line Crossing	410,566.71		
-Hope-Merritt Section, Portia-Box Canyon	376,966.99		
-Hope-Merritt Section, Power Line Crossing-Glenwalker	442,069.28		

YALE-LILLOOET ELECTORAL DISTRICT (continued)

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Highway Design and Surveys Branch (continued):			
Project L-2696 - Coquihalla Highway:			
-Merritt-Kamloops Section, Afton Mine to Aberdeen	72,033.21		
-Merritt-Kamloops Section, Clapperton Creek to Sussex Lake	252,513.62		
-Merritt-Kamloops Section, Merritt to Kamloops	501,381.09		
-Merritt-Kamloops Section, Merritt to Shuta Creek	253,971.59		
-Merritt-Kamloops Section, Merritt-Bypass	309,763.47		
-Merritt-Kamloops Section, Shuta Creek to Clapperton Canyon	515,481.08		
-Merritt-Kamloops Section, Stake Lake to Sugarloaf	53,025.48		
-Merritt-Kamloops Section, Sugarloaf to Trans Canada Highway 1	54,344.00		
-Merritt-Peachland Section, Coquihalla Phase 3 to Okanagan	103,690.02	7,406,435.11	7,479,015.98
Highway Safety Branch:			
Project C-0203 - Intersection Improvements, -Highway 1 and Ashcroft-Cache Creek Road, acceleration lane			15,190.00
Legal Surveys Office:			
Legal Surveys - Project L-0099			
-1) Mamit Lake Road-D.L.780 to N.Bdy. of Pipseul Indian Reserve 3 2.4 km+- 2) Highland Valley Road,E.Bdy. D.L.780 to W.Bdy.,Frac.S.W.1/4, Sec.4,Tp.18,R.12 W6M 1.0+-		8,654.72	
-Fountain Valley Road 81 through D.L.'s 3449 and 4308, Lillooet District		1,016.00	
-Lillooet-Cache Creek Hwy.12B through D.L.'s 536 and 888 Lillooet District 1.7 km		600.00	
-N.Bdy.D.L.7821 to D.L.2410, Lillooet District, Gun Lake Road west 3.2+-		14,159.76	
-Parts D.L.3106 and 3107, L.D.26-40 Lillooet-Pioneer and 26-163 Yalakom		823.00	
-Statutory right-of-way for highway through L.2661 L.D.		149.75	
-Through D.L.'s 593, 7576, 7740 and U.C.L.(bed of Fraser River) Lillooet District 1.7 km		5,300.03	
-Trans Canada Highway D.L.103, Gp.2,K.D.Y.D.to 105 Mile Post I.R.		3,427.00	34,130.26
Traffic Branch:			
Project E-1818 - Route 1 at Route 97, Cache Creek, signal and lighting installation		6,519.37	
E-2867 - Coquihalla Highway, Hope-Merritt Section, Bypass, Merritt area, lighting installation		8,928.65	
E-2868 - Coquihalla Highway,Abbotsford-Hope Section, Route 3 (Hope-Princeton Highway), Hope area, lighting installations		7,598.03	

YALE-LILLOOET ELECTORAL DISTRICT (continued)

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Traffic Branch: (continued)			
Project E-2925 - Coquihalla Highway, Hope-Merritt Section, Great Bear Snow Shed, lighting installation		6,114.60	
E-2948 - Coquihalla Highway, Hope-Merritt Section, Larson Hill Interchange, lighting installation		2,157.52	
E-2949 - Coquihalla Highway, Hope-Merritt Section, Coldwater Road Interchange, lighting installation		3,517.75	
E-2954 - Coquihalla Highway, Hope-Merritt Section, Shylock-Portia (Portia Interchange)		3,199.51	
E-2970 - Coquihalla Highway, Hope-Merritt Section, 1) Peers Creek Interchange 2) Sowaqua Creek to Ladner Creek, street lighting		6,112.41	
E-2971 - Coquihalla Highway, Hope-Merritt Section, 1) Boston Bar Creek Summit to Dry Gulch 2) Dry Gulch to Mine Creek 3) Juliet Creek to Coldwater crossing, street lighting		4,834.88	48,982.72
Property Services Branch:			
Rights-of-way and Property Purchases			
Project P-2801			
-Coquihalla Highway, Hope-Merritt Section, Hope to Nicolum Creek	15,200.00		
-Coquihalla Highway, Hope-Merritt Section, Peers Creek to Ten Mile Creek	20,962.00		
-Floods to Hope-Trans Canada Highway	405,773.39		
-Gravel Pits	273,135.47		
-Silver Skagit Road	23,437.00		
-Trans Canada Highway, Cheam View to Jones Creek Section	971,361.00		
-Trans Canada Highway, Wahleach Power Station, Cheam View	745,609.52	2,455,478.38	
Project P-2802			
-Cedar Creek Road 22	300.00		
-Collettville Street 19	1,[illegible]25.00		
-Coquihalla Highway, Hope-Kamloops Section, Mine Creek to Juliet Creek	15,500.00		
-Coquihalla Highway, Hope-Kamloops Section, Sowaqua Creek-Ladner Creek	21,915.00		
-Coquihalla Highway, Hope-Merritt Section, Dry Gulch to Mine Creek	173,906.00		
-Coquihalla Highway, Hope-Merritt Section, Glenwalker-Merritt	39,213.00		
-Coquihalla Highway, Hope-Merritt Section, Hydro Crossing-Glenwalker	41,799.55		
-Coquihalla Highway, Hope-Merritt Section, Kwinshatin to Trans Mountain Pipeline	262,841.00		
-Coquihalla Highway, Hope-Merritt Section, Merritt Bypass	214,437.69		
-Coquihalla Highway, Hope-Merritt Section, Trans Mountain Pipeline to Highway 5A Interchange	266,908.50		

YALE-LILLOOET ELECTORAL DISTRICT (continued)

	$	$	$
Property Services Branch (continued):			
Rights-of-way and Property Purchases			
Project P-2802			
-Coquihalla Highway,Merritt-Kamloops Section, Highway 5	1,580.53		
-Coquihalla Highway,Merritt-Kamloops Section, Merritt to Shuta Creek	327,154.50		
-Coquihalla Highway,Merritt-Kamloops Section,Shuta Creek to Clapperton Canyon	56,115.00		
-Coquihalla Highway,Merritt-Spences Bridge Section, Highway 8	21,600.00		
-Fountain Valley Road 81	1.00		
-Gun Lake Road	13,300.41		
-Lakeview Road 240	4,170.00		
-Lillooet Bridge approach, waterfront connection	15,257.00		
-Mamit Lake Road 46	1.00		
-Petit Creek Road 65	24,057.58		
-Princeton Hedley Road 116	1.00		
-Towinock Indian Reserve 2	62.06		
-Trans Canada Highway	31,800.00		
-Vermillion Avenue-Princeton	1.00	1,533,046.82	3,988,525.20
Total, Yale-Lillooet Electoral District			$136,986,914.75

REPORT OF THE DIRECTOR OF AIR SERVICES

P.S. Perry

Air ambulance and transportation services were provided for the Provincial Government ministries by the Air Services Branch for the 1984-85 fiscal year by the branch's fleet of four Cessna Citation aircraft and two Beechcraft A-200 aircraft. The total flying time for the fiscal year was 4,807.5 hours.

Air ambulance, being the prime requirement, logged a total of 2,685.9 flight hours in the fiscal year. The total number of ambulance flights was 886, transporting 1,561 patients.

Transportation flights logged 1,922.5 flying hours and carried 6,424 passengers. The transportation role included a scheduled flight service between Victoria/Vancouver/Victoria with 10 round-trips per week with an additional late evening flight added as required when the legislature is in session. The scheduled flight service operated with a average load factor of 43.14%.

Utilization of aircraft by percentages:

Air ambulance	55.87%
Transportation	39.99%
*Miscellaneous	2.49%
Flight Simulator	1.65%

* Includes training, test flights and ferry of aircraft.

Chargeback recoveries for transportation flights totalled $135,047 for the fiscal year which reflects a decrease from previous years due to the policy of having Ministers and their staff exempt from the chargeback requirement.

The Air Service Branch facility at Victoria International Airport was provided for the state visit of Her Excellency, the Governor General of Canada on February 21-22, 1985. Due to the inclement weather. the arrival reception was held in the branch hangar.

Aircraft Flying Hours

Beechcraft (2)	1,120.2 hours
Citation (4)	3,607.8 hours
Simulator (1)	79.5 hours

Air Ambulance Flights

Number of Flights	886
Number of patients	1,561
Flight time	2,685.9
Mileage	591,060

Overall Operating Statistics

Total aircraft flying hours	4,807.5
Total passenger hours	1,922.5
Total passengers carried	6,424

Passengers Carried

Schedule flights	3,657
Non-scheduled flights	2,767

REPORT OF THE DIRECTOR OF PROPERTY SERVICES

A. C. Brown

The major impact on property acquisitions for the fiscal year 1984/85 was concentrated on the Annacis Crossing and the Coquihalla highway projects. Many unique and difficult situations arose from Ministry requirements in four golf courses; peat moss operations; cranberry farms; ranches etc. Staff from other regions were also used in the lower mainland in view of the tight construction schedule.

The Branch settled 771 claims with a further 1,740 in process of negotiations.

Expenditures on acquisitions totalled $20,078,551.28.

One claim was arbitrated.

Surplus lands have been disposed of as follows:

- 25 parcels transferred to Lands, Parks and Housing.
- 9 parcels transferred to Municipalities.
- 63 parcels of closed road transferred.

A total of 1,173 gazettes establishing rights of way were processed by notice in the British Columbia Gazette and a total of 104 closures were made by similar procedure.

GAZETTES

	Establishing	Closures	Total
Region 1	169	6	175
Region 2	423	37	460
Region 3	151	17	168
Region 4	186	26	212
Region 5	119	4	123
Region 6	125	14	139

REPORT OF THE DIRECTOR OF BUILDING SERVICES

D. Grey, M.C.I.Q.S.

Due to continuing financial restraint, the five-year plan for renewal of yards and buildings was curtailed once more, with the result that progress on upgrading and replacement of Ministry facilities has been limited.

The following were designed completely by the staff of Building Services Branch:

- Complete working drawings and specifications for a standard foreman area facility, including equipment storage, dry storage, oil store and pump island, salt shed, well systems and sewage disposal. These drawings can be adapted to suit all site and climatic conditions.
- Complete working drawings and specifications for the toll booths, Coquihalla Highway. These include booths, plaza canopy, service building, money-handling, security and other systems.

Programs for the following projects were commenced, for implementation during 1985/86:

- District Yard, Merritt
- Regional Yard, Kamloops
- District Yard, Annacis
- Electrical Shop, Langford

The following projects were designed, tendered and supervised by the staff of Building Services:

- Weigh Scale Station, Sparwood
- Patrol Office, Port Mann

In addition to the above range of projects, some 280 improvement projects for existing facilities were planned, priced and carried out with all necessary drawings and specifications prepared by the staff. These included yard and shop lighting, salt sheds, larger fuel tanks, additions and alterations, extensive computer cabling, correction of safety hazards, improved water supplies and emergency repairs, encompassing structural, architectural, electrical, heating, ventilating and air-conditioning work.

The year also saw completion of the branch computer system for inventory and financial control, including budget preparation. The system was shown to other Ministries and they have now adopted it for their own use.

REPORT OF THE SENIOR INFORMATION OFFICER

W. S. Allen

The information office consists of a senior information officer, a public information officer and two full-time stenographers. Its function is to provide an information service to the public and media by handling correspondence and telephone inquiries, preparing news releases, and advertising programs and Ministry publications.

During 1984/85 fiscal year information personnel wrote and arranged for distribution 420 news releases, some to local media in particular regions of the province, others for the Press Gallery in Victoria and others for general distribution through a Government Information Services core list.

Special assignments for the information office included arrangements for 12 official openings of new highways, bridges and airport improvement projects.

In the advertising field the information office arranged and coordinated several advertising programs including a "back to school" safety campaign and a number of newspaper advertisements for road and bridge closures, official openings and other public information messages.

The office handled an average of 90 phone calls a week from the public, other ministries and the media.

Assistance was given to the Ministry of Tourism in the preparation and production of the provincial government road map by obtaining information from all highway districts and forwarding suggested changes for the new map. This is an annual inter-Ministry venture which helps to keep the tourism map up to date.

In addition, the staff edited and produced the annual report, as well as the Branch Statistical report, advised and assisted on one or two Ministry pamphlets, updated directories and handled correspondence directed to the Minister and other senior Ministry officials.

REPORT OF THE CONTRACT DOCUMENTS OFFICER

R.A. Fisher

The 1984/85 fiscal year was the second highest productive year for contracts since 1958/59, the highest being 1978/79. A total of 175 contracts were advertised consisting of 63 grading projects, 44 bridge projects, 46 gravel crushing projects, 14 asphalt surfacing projects and eight miscellaneous projects that included ferry refits, electrical and landscape projects. All but nine were awarded in the same year.

Most of these projects covered the whole of the Province. However, the grading projects were mostly centred on the building of the Annacis Highway and Coquihalla Highway.

Interest in the Ministry construction work has notably increased judging by the high volume of documentation taken out by Contractors and the number of bids received on the various projects. Bidding has been very keen as shown in the listing under "Tenders Received and Contracts Awarded".

The Ministry library has been very active throughout the year and production in the print shop has been compatible with the number of projects advertised. The offset printing has been a little slower than in previous years due to controls enforced by the Queens Printer. However, 100 percent of production has been for the Ministry within the specified guide lines. The diazo plan printing unit has again surpassed all previous years production and the demand is increasing to the point where additional equipment will have to be acquired in order to keep pace with the demand of all the various branches within the Ministry.

CONTRACT STATISTICS

SUMMARY BY ELECTORAL DISTRICTS OF GRADING, BRIDGE, PAVING, CRUSHED GRAVEL, AND MISCELLANEOUS FORMAL CONTRACT PROJECTS ADVERTISED AND AWARDED IN THE FISCAL YEAR

Electoral District	Project	
Alberni	**Gravel Crushing:**	
	M-2511-0023	Bainbridge Pit, Port Alberni
	M-2511-0024	Canoe Creek Pit, Port Alberni
Atlin	**Gravel Crushing:**	
	M-2511-0015	Deep Creek Pit, Mudhill Pit and Gnat Lake Pit, Dease Lake
	M-2511-0033	Surprise Creek Pit, Prince Rupert
Boundary-Similkameen	**Grading:**	
	C-1744 #2	Penticton Parkway Landscaping
	Gravel Crushing:	
	M-2511-0035	North Naramata Pit, Penticton
	M-2511-0039	Nancy Greene Pit, Rossland Highway District and Great Northern Pit, Grand Forks
Boundary-Edmonds & Burnaby-Willingdon	**Grading:**	
	C-2881	Gravelling and Paving the Greenall to Queensborough Bridge section of Marine Way
Cariboo	**Gravel Crushing:**	
	M-2511-0008	Graham Pit, Williams Lake
	M-2511-0009	Quesnel District Boundary Pit, Williams Lake
	Paving:	
	S-2695	Paving of Runway at 108 Mile Airport
Central Fraser Valley	**Grading:**	
	C-1777-0002	Gravelling and Paving Abbotsford Bypass Stage 1. (1.4 km)
	Miscellaneous:	
	D-2893 #2	Cast-in-Place 'Expo 86' Floral Display
Chilliwack	**Bridge:**	
	B-2829	General Construction of Peers Bridge 2692, Coquihalla Highway
	Grading:	
	C-2806	Construction of Wahleach Power Station to Cheam View, Trans Canada Highway
	C-2807	Construction of Cheam View to Jones Creek, Trans Canada Highway
	Gravel Crushing:	
	M-2511-0002	Pierce Creek Pit, Chilliwack
	Miscellaneous:	
	D-2893 #2	Cast-in-Place 'Expo 86' Floral Display
Columbia River	**Gravel Crushing:**	
	M-2511-0037	Golden Hill Pit, Golden
	Paving:	
	S-2862	Paving of the Invermere Arterial 674R (1.65 km)

Electoral District	Project	
Comox	**Gravel Crushing:**	
	M-2511-0004	Dove Creek Pit, Courtenay
	M-2511-0016	Lasqueti Island Yard, Courtenay
	M-2511-0019	Arrowsmith Pit, Port Alberni
	M-2511-0020	Kincade Pit, Port Alberni
Cowichan-Malahat	**Bridge:**	
	B-2592	Sidewalk improvements to Wilkinson Bridge No. 423, Trans Canada Highway
	Gravel Crushing:	
	M-2511-0021	Meade Creek Pit, Nanaimo
	M-2511-0022	Renfrew Pit, Shearing Pit, McLay Pit and Pamberton Pit, Nanaimo
	Miscellaneous:	
	H-2600	Annual refit of M.V. "Kulleet"
Delta	**Bridge:**	
	B-2799	Construction of B.N.R. Overhead 2758 and 64th Avenue Underpass 2759, Annacis Highway
	Grading:	
	C-2410	Dredged materials from Fraser River, Annacis Highway
	C-2617	Installation of Wick Drains in the 84th and 72nd Avenue approach fills, Annacis Highway
	C-2620	Construction of Annacis Highway (2.26 km) and part of 72nd Avenue (0.36 km)
	C-2679	Dredged material from Fraser River, Annacis Highway
	C-2680	Dredged material from Fraser River, Annacis Highway
	C-2689	Construction of 64th Avenue to Highway 10, Annacis Highway
	C-2786	Construction of Mud Bay to Highway 10, Annacis Highway and railway relocation
	C-2877	Annacis Island Paving - Cliveden Interchange
	Miscellaneous:	
	D-2893 #2	Cast-in-Place 'Expo 86' Floral Display
Dewdney	**Bridge:**	
	B-2651	Construction of Cascade Creek Bridge No. 6037 on Sylvester Road and Carratt Creek Bridge No. 8070 on Carratt Road
Esquimalt-Port Renfrew	**Bridge:**	
	B-2684R (informal)	Cleaning and Painting the Sooke River Bridge on Highway 14
Kamloops	**Bridge:**	
	B-2788	Modifications to Pier 7 of the Six Mile Bridge on Highway 5
	Grading:	
	C-1563-0004	Storm Sewer, Curb and Gutter Construction and Paving the Halston Interchange to North Thompson River, Kingston Avenue (0.624 km), City of Kamloops
	C-1563-0005	Paving Highway 5 and the North Thompson Connector
	C-1563-0006	Crushed Granular Aggregate in Stockpile at Todd Hill Pit
	C-2874	Construction of Aberdeen Interchange at junction of Trans Canada Highway and Highway 5 (south)

Electoral District	Project	
Kamloops (cont'd)	Miscellaneous:	
	D-2779 #1	Land development of Kingston Avenue to North Thompson River Bridge, City of Kelowna
	Paving:	
	S-2814	Resurfacing the Merritt Highway District Boundary to junction of Trans Canada Highway on Highway 5 (35.8 km)
Kootenay	Gravel Crushing:	
	M-2511-0038	Lepitzke Pit, Colonel Pit and Yahk Pit, Creston and Cranbrook
	Paving:	
	S-2857	Paving the Elk River Valley Airport and Highway 43, Sparwood
Langley	Miscellaneous:	
	D-2893 #2	Cast-in-Place "Expo 86" Floral Display
MacKenzie	Gravel Crushing:	
	M-2511-0030	Padgett Pit, Gibsons
Nanaimo	Gravel Crushing:	
	M-2511-0017	Timberland Pit, Nanaimo
	M-2511-0018	Gabriola Island, Nanaimo
Nelson-Creston	Gravel Crushing:	
	M-2511-0036	Reservoir Pit, New Denver
	M-2511-0038	Lepitzke Pit, Colonel Pit and Yahk Pit, Creston and Cranbrook
New Westminster	Bridge:	
	B-0694	Construction of Annacis Channel Moveable Bridge No. 2760
	B-1420 #2	Retrofitting Bents 11, 12, 13 & 14, Pattullo Bridge, Highway 1A
	B-2455	Construction of North Approach Spans N15-20, Annacis Bridge No. 2753
	B-2599	Construction of Annacis Channel East Bridge No. 2763
	B-2636	Construction of South Approach Spans, Annacis Bridge No. 2753
	B-2637	Construction of North Approach Spans N3-15, Annacis Bridge No. 2753
	B-2690	Modifications to Queensborough Bridge, Annacis Highway
	B-2791	Construction of Cliveden Underpass No. 2762, Annacis Highway
	B-2924	Construction of North Approach Spans N20 to North Abutments, Annacis Bridge No. 2753
	B-2929	Construction of 72nd Avenue B.N.R. Overhead No. 2822, Annacis Highway
	Grading:	
	C-1584-0001	Supply of Hogfuel for Annacis Highway Construction
	C-2380	Construction of Queensborough Bridge to 6th Avenue, Marine Way
	C-2410	Dredged material from Fraser River, Annacis Highway
	C-2616	Gravelling and Paving Ewen Avenue, Pembina Street and Industrial Loop Road, part of Annacis Highway
	C-2618	Installation of Wick Drains on Annacis Highway
	C-2619	Installation of Wick Drains on Annacis Highway
	C-2656	Construction of connectors to Annacis Highway, Queensborough area
	C-2681	Gravelling and Paving Greenall to Queensborough Bridge, Marine Way
	C-2957	Installation of Wick Drains on Annacis Highway

Electoral District	Project	
North Island	Gravel Crushing:	
	M-2511-0003	Salmon River Pit, Courtenay
North Peace River	Gravel Crushing:	
	M-2511-0010	Moore Pit, Fort St John
	M-2511-0041	Kimea Creek Pit, Fort St. John. Contract was not awarded
North Vancouver-Seymour	Miscellaneous:	
	C-1725 #2	Landscape development of Fern Street to Mt. Seymour Parkway
Okanagan North	Grading:	
	C-2819	Construction of Bailey Road to Vernon, Highway 97 (11.147 km)
	Gravel Crushing:	
	M-2511-0027	Church Pit and Summerland Pit, Kelowna
Okanagan South	Grading:	
	C-2459	Reconstruction of Harvey Avenue, City of Kelowna, Highway 97 (0.75 km)
	Miscellaneous:	
	E-2439	Installation of Lane Control System on Okanagan Lake Bridge, Highway 97
	Paving:	
	S-2785	Curb and Gutter construction and paving Highway 33 and Rutland Road, Kelowna
	S-2912	Reconstruction of Pandosy Street to Princess Street, Harvey Avenue (Highway 97), Kelowna
Omineca	Gravel Crushing:	
	M-2511-0011	Ten Mile Pit, Vanderhoof
	M-2511-0012	Layton Pit, Vanderhoof
	Miscellaneous:	
	C-2821	Construction of Weigh Scale Station, Vanderhoof, Highway 16
Prince George North	Grading:	
	C-2135-0001	Paving Bear Lake to Red Rocky, Highway 97
Prince George South	Gravel Crushing:	
	M-2511-0007	Little Falls Pit, McBride
Prince Rupert	Gravel Crushing:	
	M-2511-0032	Piper Creek Pit and Miller Creek Pit on Queen Charlotte Islands, Prince Rupert
	Paving:	
	S-2887	Paving Highway 16 at Tyee Crossing (3.0 km)

Electoral District	Project	
Richmond	**Grading:**	
	C-1584-0001	Supply of Hogfuel for Annacis Highway
	C-2410	Dredged material from Fraser River, Annacis Highway
	C-2618	Installation of Wick Drains on Annacis Highway
	C-2619	Installation of Wick Drains on Annacis Highway
	C-2656	Construction of Connectors to Annacis Highway
	C-2817	Richmond grade construction on Annacis Highway
	C-2957	Installation of Wick Drains on Annacis Highway
Rossland-Trail	**Gravel Crushing:**	
	M-2511-0039	Nancy Greene Pit, Rossland and Great Northern Pit, Grand Forks
Saanich and the Islands	**Miscellaneous**	
	D-2654	Landscape development of MacKenzie Avenue Extension
Shuswap-Revelstoke	**Bridge:**	
	B-2649	Construction of Pritchard Bridge No. 297, Pinantan Road
	Gravel Crushing:	
	M-2511-0025	Kirshfelt Pit, Vernon
	M-2511-0026	Morgan Pit, Adams River Pit and Rennie Pit, Salmon Arm
	M-2511-0028	Woolsey Pit, Revelstoke
	M-2511-0029	Skimikin Pit, Salmon Arm
	Paving:	
	S-0084-2211	Crushed Graded Seal Aggregate in Stockpile at Zickmantle Pit at Falkland, Salmon Arm
	S-0084-2213	Crushed Graded Seal Aggregate in Stockpile at Turcotte Pit at Pritchard, Salmon Arm
Skeena	**Gravel Crushing:**	
	M-2511-0031	Swan Pit, Dawson Creek
South Peace River	**Gravel Crushing:**	
	M-2511-0013	Brown Pit, Dawson Creek
	M-2511-0014	Jackfish Lake South Pit, Dawson Creek
Surrey	**Grading:**	
	C-2679	Dredged material from Fraser River, Annacis Highway
	C-2680	Dredged material from Fraser River, Annacis Highway
	Miscellaneous:	
	D-2893 #1	Cast-in-Place "Expo 86" Floral Display
	D-2893 #2	Cast-in-Place "Expo 86" Floral Display
West Vancouver-Howe Sound	**Bridge:**	
	B-2645	Repairs and modifications to Charles Creek Bridge No. 1457, Garibaldi Highway 99
	B-2646	Construction of Magnesia Creek Bridge 1452, Garibaldi Highway 99
	Grading:	
	C-2593	Construction of Harvey Creek Debris Control System, Garibaldi Highway 99
	C-2594	Construction of Charles Creek Debris Control System, Garibaldi Highway 99
	Gravel Crushing:	
	M-2511-0006	Supply and deliver Crushed Granular Aggregate in Stockpile to Bowen Island Maintenance Yard

Electoral District		Project
Yale-Lillooet	**Bridge:**	
	B-2787	Construction of Silverhope and Floods Underpasses, Trans Canada Highway
	B-2789	Construction of Nicolum Creek Bridge No. 2828, Coquihalla Highway
	B-2790	Construction of Tomberry Road Bridge No. 2618
	B-2797	Construction of Jessica Bridge No. 2724, Coquihalla Highway
	B-2818 #2	Construction of substructure for Dry Gulch Bridge No. 2827, Coquihalla Highway
	B-2818 #3	Construction of substructure for Dry Gulch Bridge No. 2827, Coquihalla Highway
	B-2826	Construction of Deneau Creek Bridge No. 2775, Coquihalla Highway
	B-2828	Construction of Hope Overpass and Thacker Creek Overpass, Coquihalla Highway
	B-2830	Construction of Portia Bridge No. 2835, Coquihalla Highway
	B-2832	Construction of Alexander Creek Bridge No. 2849, Southern Trans-Provincial Highway 3
	B-2833	Construction of Dewdney Creek Bridge No. 2748, Coquihalla Highway
	B-2866	Construction of 3 Mile Bridge No. 6373, Spences Bridge to Merritt, Highway 8
	B-2876	Construction of Ladner Creek Bridge No. 2853, Coquihalla Highway
	B-2879	Construction of Juliet Creek Bridge No. 2836 and Bottletop Bridge No. 2837, Coquihalla Highway
	B-2880	Construction of Silverhope Creek Bridge No. 2577, Trans Canada Highway
	B-2881	Construction of Henning Bridge No. 2830 and Coquihalla Lakes Underpass No. 2831, Coquihalla Highway
	B-2884	Construction of Kingsvale Bridge No. 2841, Coquihalla Highway
	B-2885	Construction of Kingsvale Overhead No. 2845, Coquihalla Highway
	B-2886	Construction of Carolin Bridge No. 2767, Coquihalla Highway
	B-2898	Construction of Curnow Bridge No. 0892, Spences Bridge to Merritt, Highway 8
	B-2939	Construction of Murray Bridge No. 2838, Brook Bridge No. 2839 and Brodie Bridge No. 2840, Coquihalla Highway
	Grading:	
	C-0760	Construction of Peers Creek to Ten Mile Creek, Coquihalla Highway (3.2 miles)
	C-2662	Construction of Floods to Hope, Trans Canada Highway
	C-2663	Construction of Ten Mile Creek to Sowaqua Creek, Coquihalla Highway (2.07 miles)
	C-2683	Construction of Sowaqua Creek to Ladner Creek, Coquihalla Highway (3.80 miles)
	C-2694	Construction of Mine Creek to Juliet Creek, Coquihalla Highway (5.9 km)
	C-2768	Clearing and Grubbing Hope to Nicolum Creek, Southern Trans-Provincial Highway 3
	C-2772	Crushed Granular Aggregate in Stockpile at Juliet Creek Pit, Coquihalla Highway
	C-2781	Crushed Granular Aggregate in Stockpile at Coldwater Pit, Coquihalla Highway
	C-2782	Crushed Granular Aggregate in Stockpile at Shylock Pit, Coquihalla Highway
	C-2783	Crushed Granular Aggregate in Stockpile at Rusty Pit, Coquihalla Highway
	C-2810	Construction of Portia to Miranda, Coquihalla Highway (3.0 km)
	C-2810-0001	Concrete Arch Construction Portia to Box Canyon, Coquihalla Highway
	C-2811	Construction of Miranda to Box Canyon, Coquihalla Highway (3.74 km)
	C-2812	Construction of Box Canyon to Great Bear No. 5, Coquihalla Highway (3.32 km)
	C-2813	Construction of Great Bear No. 5 to Summit, Coquihalla Highway (4.95 km)
	C-2816	Crushed Granular Aggregate in Stockpile at Godey Pit, Coquihalla Highway

Electoral District	Project	
Yale-Lillooet	C-2827	Crushed Granular Aggregate in Stockpile at Brodie Pit, Coquihalla Highway
(cont'd)	C-2831	Construction of Larson Hill to Coldwater Crossing No. 6, Coquihalla Highway (4.70 km)
	C-2834	Construction of Coldwater Crossing No. 6 to Powerline Crossing, Coquihalla Highway (6.22 km)
	C-2835	Clearing and Grubbing, Powerline Crossing to Glenwalker, Coquihalla Highway
	C-2837	Construction of Trans Mountain Pipeline to junction of Highway 5A, Coquihalla Highway (3.16 km)
	C-2838	Construction of Merritt Bypass, Coquihalla Highway (5.0 km)
	C-2839	Construction of Kwinshatin Creek to Trans Mountain Pipeline, Coquihalla Highway (6.3 km)
	C-2840	Construction of Salem Creek to Glenwalker, Coquihalla Highway (4.675 km)
	C-2841	Construction of Glenwalker to Kwinshatin Creek, Coquihalla Highway (3.50 km)
	C-2843	Construction of Compressor Station to Salem Creek, Coquihalla Highway (2.775 km)
	C-2844	Construction of Hydro Crossing to Compressor Station, Coquihalla Highway (2.85 km)
	C-2851	Clearing and Grubbing, Coldwater Crossing to Larson Hill, Coquihalla Highway
	C-2852	Construction of Crossing No. 3 to Larson Hill, Coquihalla Highway (6.84 km)
	C-2853	Construction of Ladner Creek to Shylock Landing, Coquihalla Highway (2.7 km)
	C-2854	Construction of Shylock Landing to Portia, Coquihalla Highway (2.5 km)
	C-2871	Construction of Hope to Nicolum Creek, Southern Trans-Provincial Highway 3 (8.37 km)
	C-2891	Construction of Merritt to Shuta Creek, Coquihalla Highway (8.78 km)
	Gravel Crushing:	
	M-2511-0001	Bulgar Pit, Chilliwack
	M-2511-0006	Godey Pit, Merritt
	M-2511-0040	Boyes Creek Pit, Lillooet
	M-2511-0042	Bethlehem Pit, Merritt
	M-2511-0043	Chenault Pit, Lillooet
	Paving:	
	S-2815	Paving Upper Nicola to Peter Hope Lake Road, Highway 5 (18.05 km)
	S-2920	Paving Logan Lake to Lac Le Jeune, Meadow Creek Road (23.40 km)
	S-2921	Paving Bethlehem Mine Access Road to Logan Lake, Highland Valley Road (13.20 km)
	S-2922	Paving Ashcroft to Highland Valley Trailer Park, Highland Valley Road (18.65 km)

TENDERS RECEIVED AND CONTRACTS AWARDED

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
ROADS		
Project C-0760: Construction, Peers Creek to Ten Mile Creek, Coquihalla Highway (3.20 miles)		
Emil Anderson Construction Co. Ltd.	5,555,614.00	Awarded
Tercon Contractors Ltd.	5,954,546.00	
Cantex Engineering and Construction Co. Ltd.	6,616,000.61	Amended Total
Miller Contracting Ltd.	7,232,821.00	
Mlann Construction Ltd.	7,285,489.00	
Goodbrand Construction Ltd.	7,355,958.40	
Nu-Road Contracting Ltd.	7,436,529.00	
Edgeworth Construction Ltd.	7,525,068.35	Amended Total
View Construction Ltd.	7,563,893.50	Amended Total
Ledcor Construction Ltd.	7,610,346.70	
Edco Construction Ltd.	7,775,907.00	
Loram Construction Ltd.	8,174,591.00	
Geddes Contracting Co. Ltd.	8,323,216.40	
Dawson Construction Limited	8,550,373.16	
Peter Kiewit Sons Co. Ltd.	8,712,599.00	
Project C-1563-0004: Storm Sewer, Curb & Gutter, Construction and Paving of the Halston Interchange to North Thompson River Section of Kingston Avenue (0.624 km) City of Kamloops		
B.A. Blacktop Kamloops	473,028.80	Awarded
Dawson Construction Limited	496,176.00	
Wills Enterprises Ltd.	528,427.63	Amended Total
Review Construction Inc.	541,250.26	Amended Total
Larmac Management Corp.	565,878.00	
Project C-1563-0005: Paving Highway 5 and North Thompson Connector		
H. Williamson Blacktop and Landscaping Ltd.	630,415.45	Awarded
B.A. Blacktop Kamloops	714,008.94	
Rorison Enterprises Ltd.	722,952.31	
Columbia Bitulithic Ltd.	737,401.30	
Dawson Construction Limited	745,173.80	
Okanagan Aggregates Ltd.	834,010.00	
Venture Paving Ltd.	947,019.60	
Project C-1584-0001: Supply of Hogfuel for Annacis Highway Construction		
United Contractors Ltd.	1,854,800.00	Awarded
Delta Aggregates Ltd.	1,917,000.00	
Kruger Corp.	6,178,200.00	
Project C-1744-2: Penticton Parkway Landscaping		
M.C. Tower Enterprises Ltd.	32,707.20	Awarded
Dunham's Landscaping Ltd.	34,594.42	
Westwind Nursery Ltd.	36,000.00	
Holland Landscapers Ltd.	42,272.02	
Courtenay Landscapers Plus Ltd.	43,960.14	
James L. Murray	44,549.25	
Joe Brum Landscaping Ltd.	68,569.00	
Project C-1777-0002: Gravelling and Paving Abbotsford Bypass, Stage 1 (1.4 km)		
Imperial Paving Ltd.	378,913.00	Awarded
Riverside Excavating Ltd.	380,482.75	
Columbia Bitulithic Ltd.	384,021.50	
Grandview Blacktop Ltd.	477,991.50	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
ROADS (continued)		
Project C-2135-0001: Paving, Bear Lake to Red Rocky, Highway 97		
Columbia Bitulithic Ltd.	176,380.00	Awarded
Central Paving & Engineering Ltd.	194,905.00	
Midvalley Construction Ltd.	245,364.00	
Okanagan Aggregates Ltd.	257,870.00	
Project C-2380: Construction, Queensborough Bridge to 6th Avenue, Marine Way		
United Contractors Ltd.	1,821,934.54	Awarded
Jack Cewe Ltd.	1,891,500.12	
Progressive Contracting (Langley) Ltd.	1,932,122.13	Amended Total
Miller Contracting Ltd.	2,030,008.00	
Ocean Point Contractors Ltd.	2,049,577.00	
Goodbrand Construction Ltd.	2,203,091.75	
Southwest Contracting Ltd.	2,230,418.25	Amended Total
H.B. Contracting Ltd.	2,248,928.85	
Columbia Bitulithic Ltd.	2,269,267.45	
Bel Construction Ltd.	2,428,463.00	
C. Victor Koran Ltd.	2,510,820.00	
Kany Construction & Engineering Ltd.	2,724,367.50	
Project C-2410: Dredged Material From Fraser River For Annacis Highway		
Sceptre-Riedel-Dawson Construction Ltd.	1,629,000.00	Awarded
Dillingham Construction Ltd.	2,162,073.00	
Centennial Dredging & Sand Ltd.	2,372,594.40	
Project C-2459: Reconstruction, Harvey Avenue in the City of Kelowna, Highway 97 (0.75 km)		
Midvalley Construction Ltd.	538,360.00	Awarded
Peter's Bros Paving (1981) Ltd.	669,176.00	
Jaycon Contracting Ltd.	678,910.11	
Geddes Contracting Co. Ltd.	1,007,319.25	
Project C-2593: Construction, Harvey Creek Debris Control System, Garibaldi Highway 99		
Miller Contracting Ltd.	5,594,809.00	Awarded Amended Total
Goodbrand Construction Ltd.	5,892,975.00	
Dawson Construction Ltd.	6,798,046.00	
C. Victor Koran Ltd.	7,416,980.54	Amended Total
Wesco Contracting Ltd.	7,970,653.60	
Project C-2594: Construction, Charles Creek Debris Control System, Garibaldi Highway 99		
Graehold Construction Corp.	2,358,082.25	Awarded
Interior Contracting Company Limited	2,473,864.25	
Miller Contracting Ltd.	2,493,730.00	
Interpro Contractors Ltd.	2,515,053.63	Amended Total
C. Victor Koran	2,532,680.78	
Goodbrand Construction Ltd.	2,625,044.00	
Tercon Contractors Ltd.	2,816,309.00	Amended Total
Project C-2616: Gravelling & Paving Ewen Avenue, Pembina Street and Industrial Loop Road, Annacis Highway		
Columbia Bitulithic Ltd.	316,286.00	Awarded
B.A. Blacktop (Corp.Partnership) Seso Entr. & Geno Investments Ltd.	332,542.30	
Jack Cewe Ltd.	339,863.70	
Winvan Paving Ltd.	346,647.00	
Imperial Paving Ltd.	349,487.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
ROADS (continued)		
Project C-2617: Installation of Wick Drains on the 84th & 72nd Avenue Approach Fills, Annacis Highway		
Nilex Geotechnical Products Inc.	191,640.00	Awarded Amended Total
Deep Foundations Contractors Ltd.	194,560.00	
Western Caissons Ltd.	203,080.00	
GKN Keller Canada Ltd.	212,150.00	
Miller Contracting Ltd.	213,500.00	
The Cementation Company (Canada) Limited	249,615.00	
Franki Canada Ltd.	283,908.00	
Pacific Blasting Co. Ltd.	301,800.00	
Project C-2618: Installation of Wick Drains, Annacis Highway		
Nilex Geotechnical Products Inc.	706,398.00	Awarded
Deep Foundations Contractors Ltd.	760,740.00	
Western Caissons Ltd.	783,628.00	
Sceptre-Riedel-Dawson Constructors Ltd.	829,070.00	
Geopac West Ltd.	886,106.00	
Miller Contracting Ltd.	896,900.00	
Pacific Blasting Co.	979,730.00	
GKN Keller Canada Ltd.	999,842.00	
The Cementation Company (Canada) Limited	1,076,548.00	
G.W. Ledingham Limited	1,619,000.00	
Project C-2619: Installation of Wick Drains, Annacis Highway		
Nilex Geotechnical Products Inc.	439,910.00	Awarded
Western Caissons Ltd.	447,056.00	Amended Total
Deep Foundations Contractors Ltd.	467,984.00	
Geopac West Ltd.	496,372.00	
Westco Contracting Ltd.	570,748.00	
Project C-2620: Construction, Annacis Highway (2.26 km) and part of 72nd Avenue (0.36 km)		
United Contractors Ltd.	1,137,462.16	Awarded
Edgeworth Construction Ltd.	1,214,994.00	
Glennbrook Contracting Ltd.	1,241,515.79	Amended Total
Kany Construction & Engineering Ltd.	1,322,885.26	Amended Total
Sonny's Excavating Ltd.	1,423,415.90	
H.B. Contracting Ltd.	1,434,660.20	Amended Total
Miller Contracting Ltd.	1,439,115.00	
Goodbrand Construction Ltd.	1,581,825.00	
Southwest Contracting Ltd.	1,686,102.50	
Dawson Construction Limited	1,784,461.00	
Bel Construction Ltd.	1,915,731.60	
Jack Cewe Ltd.	2,097,642.19	
Project C-2656: Construction, Connectors to Annacis Highway in the Queensborough Area		
Delta Aggregates Ltd.	1,367,125.36	Awarded
Southwest Contracting Ltd.	1,797,639.20	Amended Total
Miller Contracting Ltd.	1,944,169.30	
United Contractors Ltd.	1,993,924.00	
H.B. Contracting Ltd.	2,042,384.42	
Jack Cewe Ltd.	2,445,356.84	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
ROADS (continued)		
Project C-2662: Construction, Floods to Hope, Trans Canada Highway		
Goodbrand Construction Ltd.	9,879,846.50	Awarded
Emil Anderson Construction Co. Ltd.	10,563,916.00	
Edgeworth Construction Ltd. and E & M Contractors	10,639,803.00	Amended Total
Miller Contracting Ltd.	11,175,827.50	
Dawson Construction Limited	11,298,097.00	
Ledcor Construction Ltd.	11,534,922.75	
View Construction Ltd.	11,929,397.50	
Peter Kiewit Sons Co. Ltd.	12,553,215.00	
St. Lawrence Construction (Western) Ltd. & Tonto Construction Ltd.	13,255,179.00	
Geddes Contracting Co. Ltd.	14,919,398.00	
Project C-2663: Construction, Ten Mile Creek to Sowaqua Creek, Coquihalla Highway (2.07 miles)		
View Construction Ltd.	5,886,319.10	Awarded
Nu-Road Contracting Ltd.	5,959,167.50	
Cantex Engineering & Construction Co. Ltd.	6,529,763.39	Amended Total
Edco Construction Ltd.	6,643,704.40	
Edgeworth Construction Ltd.	6,732,848.75	Amended Total
Emil Anderson Construction Co. Ltd.	6,759,850.80	
Miller Contracting Ltd.	6,778,038.00	
Miann Construction Ltd.	7,173,028.00	Amended Total
Dawson Construction Limited	7,536,036.93	
Tercon Contractors Ltd.	7,674,349.30	
Geddes Contracting Co. Ltd.	7,859,342.40	
Ledcor Construction Ltd.	8,101,991.50	
Goodbrand Construction Ltd.	8,637,978.50	
Project C-2679: Dredged Material from Fraser River for Annacis Highway		
Centennial Dredging & Sand Ltd.	4,969,727.00	Awarded
Sceptre-Riedel-Dawson Constructors Ltd.	5,440,000.00	
Project C-2680: Dredged Material from Fraser River for Annacis Highway		
Sceptre-Riedel-Dawson Constructors Ltd.	1,111,000.00	Awarded
Centennial Dredging & Sand Ltd.	1,313,200.00	
Dillingham Construction Ltd.	1,407,000.00	
Project C-2681: Gravelling & Paving, Greenall to Queensborough Bridge, Marine Way		
Columbia Bitulithic Ltd.	867,680.20	Awarded
Jack Cewe Ltd.	907,657.04	
Imperial Paving Ltd.	917,949.00	
B.A. Blacktop (A Corporate Partnership)	945,686.72	
Winvan Paving Ltd.	969,675.00	
United Contractors Ltd.	1,091,112.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
ROADS (continued)		
Project C-2683: Construction, Sowaqua Creek to Ladner Creek, Coquihalla Highway (3.80 miles)		
Nu-Road Contracting Ltd.	5,163,583.00	Awarded
Ledcor Construction Ltd.	5,724,835.00	
Geddes Contracting Co. Ltd.	5,831,027.80	
Tercon Contractors Ltd.	5,838,155.00	Amended Total
Miller Contracting Ltd.	5,930,649.00	
Edco Construction Ltd.	5,956,246.50	
Cantex Engineering & Construction Co. Ltd.	5,990,541.00	
Edgeworth Construction Ltd.	5,997,192.00	
Emil Anderson Construction Co. Ltd.	6,230,763.00	
Dawson Construction Limited	6,325,655.00	
View Construction Ltd.	6,420,795.00	
Miann Construction Ltd.	7,235,018.00	
Goodbrand Construction Ltd.	7,404,131.00	
Northern Construction Company Ltd.	11,375,431.00	
Project C-2689: Construction, 64th Avenue to Highway 10, Annacis Highway		
Miller Contracting Ltd.	4,054,180.00	Awarded
Delta Aggregates Ltd.	4,178,208.32	Amended Total
United Contractors Ltd.	4,330,608.84	
H.B. Contracting Ltd.	4,464,245.81	Amended Total
Southwest Contractors Ltd.	4,703,493.00	
Goodbrand Construction Ltd.	4,898,170.00	Amended Total
Project C-2694: Construction, Mine Creek to Juliet Creek, Coquihalla Highway (5.9 km)		
Dawson Construction Limited	3,168,430.00	Awarded
Ledcor Construction Ltd.	3,717,699.00	
Cantex Engineering & Construction Co. Ltd.	3,859,981.00	
Geddes Contracting Co. Ltd.	4,069,540.00	
Edco Construction Ltd.	4,258,626.00	
Nu-Road Contracting Ltd.	4,403,755.00	
Edgeworth Construction Ltd.	4,464,905.00	
Emil Anderson Construction Co. Ltd.	4,486,868.00	
Miller Contracting Ltd.	4,539,265.00	
Goodbrand Construction Ltd.	4,773,567.89	Amended Total
Tercon Contractors Ltd.	4,948,851.00	
Miann Construction Ltd.	5,066,785.00	
View Construction Ltd.	5,940,810.00	
Project C-2768: Clearing & Grubbing, Hope to Nicolum Creek, Highway 3		
Pooley Bros. Ltd.	190,830.00	Awarded
Echo Mountain Contracting Ltd.	232,999.85	
Geddes Contracting Co. Ltd.	285,980.00	
Lor-Wes Contracting Co. Ltd.	286,755.00	
S & G Construction Ltd.	386,391.00	
Spring Holdings Ltd.	468,868.00	
Zanatta & Levac Bulldozing Ltd.	948,615.00	
Plazer Contracting Ltd.	952,369.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
ROADS (continued)		
Project C-2772: Crushing, Granular Aggregate in Stockpile at Juliet Pit, Coquihalla Highway		
767 Contractors	323,098.15	Awarded
Jake & Jay Holdings Ltd.	455,813.00	Amended Total
Okanagan Aggregates Ltd.	469,449.00	
S.R.M. Ventures Inc.	493,003.16	Amended Total
W.E. Robertson Construction Co. Ltd.	514,975.00	
Ptarmigan Gravel Ltd.	517,935.00	
Kentron Construction Ltd.	540,441.00	Amended Total
Dawson Construction Limited	588,457.00	
Cantex Engineering & Construction Co. Ltd.	597,760.00	Amended Total
Goodbrand Construction Ltd.	687,625.00	
Columbia Bitulithic Ltd.	879,016.00	
Miller Contracting Ltd.	943,960.00	
Project C-2781: Crushing, Granular Aggregate in Stockpile at Coldwater Pit, Coquihalla Highway		
W.E. Robertson Construction Co. Ltd.	262,400.00	Awarded
Victoria Milling Ltd.	263,578.95	Amended Total
Ptarmigan Gravel Ltd.	276,100.00	
Dawson Construction Limited	278,100.00	
Kentron Construction Ltd.	296,000.00	Amended Total
Okanagan Aggregates Ltd.	308,000.00	
Cantex Engineering & Construction Co. Ltd.	322,800.00	
Gord Don Trucking Limited	331,368.42	Amended Total
Columbia Bitulithic Ltd.	333,000.00	
Jake & Jay Holdings Ltd.	368,700.00	
767 Contractors Ltd.	375,666.83	
Miller Contracting Ltd.	530,200.00	
Project C-2782: Crushing, Granular Aggregate in Stockpile at Shylock Pit, Coquihalla Highway		
Cantex Engineering & Construction Co. Ltd.	1,528,180.00	Awarded
Miller Contracting Ltd.	1,536,450.00	
Dawson Construction Limited	1,866,650.00	
Columbia Bitulithic Ltd.	1,927,345.00	
Spring Point Management Ltd.	2,261,725.00	
Okanagan Aggregates Ltd.	4,616,350.00	
Project C-2783: Crushing, Granular Aggregate in Stockpile at Rusty Pit, Coquihalla Highway		
D.M.J. Construction Ltd.	191,640.00	Awarded
E & M Crushing Ltd.	197,500.00	
Ptarmigan Gravel Ltd.	202,620.00	
Okanagan Aggregates Ltd.	211,800.00	
Columbia Bitulithic Ltd.	215,960.00	
Jake & Jay Holdings Ltd.	217,700.00	
Venture Paving Ltd.	222,357.89	Amended Total
Gord Don Trucking Ltd.	224,740.00	
Kentron Construction Ltd.	290,500.00	
Miller Contracting Ltd.	330,400.00	
767 Contractors Ltd.	398,640.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
ROADS (continued)		
Project C-2788: Construction, Mud Bay to Highway 10, Annacis Highway and Railway relocation		
Sonny's Excavating Ltd.	1,217,546.16	Awarded
Ocean Point Contractors Ltd.	1,229,693.40	
Miller Contracting Ltd.	1,361,860.00	
Hellyer Contracting Ltd.	1,366,368.40	Amended Total
Delta Aggregates Ltd.	1,457,622.00	
Southwest Contracting Ltd.	1,541,515.00	
United Contractors Ltd.	1,706,706.00	
C. Victor Koran Ltd.	1,817,503.60	
Riverside Excavating Ltd.	1,967,768.00	
Kany Construction & Engineering Ltd.	1,989,194.00	
Goodbrand Construction Ltd.	2,094,580.00	
Argo Industries Ltd.	2,263,090.00	Amended Total
Project C-2810: Construction, Portia to Miranda, Coquihalla Highway (3.0 km)		
Cantex Engineering & Construction Co. Ltd.	3,879,870.00	Awarded
Miller Contracting Ltd.	4,251,400.00	
Geddes Contracting Co. Ltd.	4,290,308.00	
Dawson Construction Limited	4,759,890.00	
Nu-Road Contracting Ltd.	4,976,240.00	
E. Lobe Contracting Ltd.	5,124,630.00	
View Construction Ltd.	5,317,770.00	
Edco Construction Ltd.	5,353,950.00	
Miann Construction Ltd.	5,400,072.00	
Emil Anderson Construction Co. Ltd.	5,762,210.00	
Project C-2810-0001: Concrete Arch Construction, Portia to Box Canyon, Coquihalla Highway		
Architectural Precast Structures	966,160.00	Awarded
Dywidag Fab. Con. Products	1,053,623.00	
Supercrete (Canfarge)	1,124,603.00	
Western Concrete	1,247,994.00	Amended Total
Genstar Structures	1,345,000.00	
Project C-2811: Construction, Miranda to Box Canyon, Coquihalla Highway (3.47 km)		
Edco Construction Ltd.	5,511,200.00	Awarded
Goodbrand Construction Ltd.	6,829,340.00	
E. Lobe Contracting Ltd.	6,254,730.00	Amended Total
Dawson Construction Limited	7,124,366.00	
Tercon Contractor Ltd.	7,288,850.00	Amended Total
Miller Contracting Ltd.	7,356,120.00	
Ledcor Construction Ltd.	8,070,130.00	
Emil Anderson Construction Co. Ltd.	8,678,420.00	
View Construction Ltd.	9,970,350.00	
Project C-2812: Construction, Box Canyon to Great Bear No. 5, Coquihalla Highway (3.32 km)		
Ledcor Construction Ltd.	6,227,883.20	Awarded
Miann Construction Ltd.	6,248,625.50	
Edgeworth Construction Ltd.	6,445,738.00	
E. Lobe Contracting Ltd.	6,453,727.55	
Miller Contracting Ltd.	6,563,443.00	
Geddes Contracting Co. Ltd.	6,841,536.90	
Dawson Construction Limited	7,335,494.55	
Goodbrand Construction Ltd.	7,708,794.20	
Emil Anderson Construction Co. Ltd.	8,199,509.50	
View Construction Ltd.	9,329,144.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
ROADS (continued)		
Project C-2813: Construction, Great Bear No. 5 to Summit, Coquihalla Highway (4.93 km)		
Edgeworth Construction Ltd.	5,794,426.80	Amended Total Awarded
Tercon Construction Ltd.	7,743,976.73	Amended Total
Ledcor Construction Ltd.	7,793,910.50	
Dawson Construction Limited	8,125,762.75	
Geddes Contracting Co. Ltd.	8,253,367.70	
Goodbrand Construction Ltd.	8,736,651.58	
Miller Contracting Ltd.	8,880,070.05	Amended Total
E. Lobe Contracting Ltd.	9,385,733.90	
Edco Construction Co. Ltd.	9,896,226.70	
Emil Anderson Construction Co. Ltd.	10,394,936.00	
View Construction Ltd.	19,756,510.75	
Project C-2816: Crushing, Granular Aggregate in Stockpile Godey Pit, Coquihalla Highway		
Kentron Construction Ltd.	643,359.00	Amended Total Awarded
Gord Don Trucking Ltd.	666,942.00	
767 Contractors Ltd.	667,337.00	Amended Total
Okanagan Aggregates Ltd.	751,294.00	
Cantex Engineering & Construction Co. Ltd.	778,598.00	Amended Total
Venture Paving Ltd.	848,675.79	Amended Total
Dawson Construction Limited	1,014,163.00	
Columbia Bitulithic Ltd.	1,084,232.00	
Webb & Trace Ltd.	1,251,246.00	
Miller Contracting Ltd.	1,284,505.00	
Project C-2817: Construction, Richmond Grade, Annacis Highway (3.548 km)		
Miller Contracting Ltd.	1,379,755.00	Amended Total Awarded
Kany Construction & Engineering Ltd.	1,438,498.00	Amended Total
Delta Aggregates Ltd.	1,522,029.60	
Southwest Contracting Ltd.	1,565,262.00	
Ocean Point Contractors	1,592,266.00	
United Contractors Ltd.	1,646,110.74	Amended Total
Goodbrand Construction Ltd.	1,811,620.00	Amended Total
Progressive Contracting Ltd.	2,083,093.00	
C. Victor Koran Ltd.	2,125,028.60	
H.B. Contracting Ltd.	2,189,277.93	
Project C-2819: Construction, Bailey Road to Vernon, Highway 97 (11.147 km)		
View Construction Ltd.	7,348,980.00	Amended Total Awarded
Dawson Construction Limited	7,454,555.00	Amended Total
Geddes Contracting Co. Ltd.	7,947,096.20	Amended Total
Tercon Contractors Ltd.	8,265,618.40	
Emil Anderson Construction Co. Ltd.	8,883,557.60	
Miller Contracting Ltd.	8,931,931.00	
Ledcor Industries Ltd.	9,514,565.20	Amended Total
Goodbrand Construction Ltd.	10,929,594.00	Amended Total

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
ROADS (continued)		
Project C-2827: Crushing, Granular Aggregate in Stockpile Brodie Pit, Coquihalla Highway		
Ptarmigan Gravel Ltd.	435,572.00	Awarded
Kentron Construction Ltd.	440,352.00	
Jake & Jay Holdings Ltd.	463,772.40	
Cantex Engineering & Construction Co. Ltd.	488,096.00	
Columbia Bitulithic Ltd.	517,416.00	
Venture Paving Ltd.	530,798.00	
Okanagan Aggregates Ltd.	608,176.00	
Dawson Construction Limited	699,376.00	
Miller Contracting Ltd.	810,080.00	
767 Contractors Ltd.	1,052,056.00	
Project C-2831: Construction, Larson Hill to Coldwater Crossing No. 6, Coquihalla Highway		
Emil Anderson Construction Co. Ltd.	5,444,920.00	Awarded
Geddes Contracting Co. Ltd.	5,514,110.00	
Nu-Road Contracting Ltd.	5,659,150.00	
Dawson Construction Limited	5,755,385.00	Amended Total
E. Lobe Contracting Ltd.	5,921,960.00	Amended Total
Tercon Contractors Ltd.	6,067,038.00	
Miller Contracting Ltd.	6,186,735.00	Amended Total
Miann Construction Ltd.	6,246,862.00	
Ledcor Construction Ltd.	6,791,795.00	Amended Total
Edco Construction Ltd.	7,254,274.00	
View Construction Ltd.	7,493,610.00	
Peter Kiewit Sons Co. Ltd.	8,331,570.00	
Project C-2834: Construction, Coldwater Crossing No. 6 to Powerline Crossing, Coquihalla highway (6.22 km)		
Dawson Construction Limited	8,395,834.60	Amended Total Awarded
Emil Anderson Construction Co. Ltd.	8,458,008.00	Amended Total
Geddes Contracting Co. Ltd.	8,639,512.00	Amended Total
Miller Contracting Ltd.	8,894,759.00	
Goodbrand Construction Ltd.	9,517,642.20	Amended Total
View Construction Ltd.	10,821,127.00	
Project C-2835: Clearing and Grubbing, Powerline Crossing to Glenwalker, Coquihalla Highway		
S & G Construction Ltd.	117,000.00	Awarded
Larkin Contracting Ltd.	119,700.00	Amended Total
Spring Holdings Ltd.	157,552.00	
Lau Bat Logging Co. Limited	161,843.25	
H.E. Sanders Ltd.	174,179.65	
Plaser Contracting Ltd.	187,565.00	
Lor-Wes Contracting Ltd.	196,605.16	
Project C-2837: Construction, Trans Mountain Pipeline to Highway 5A Interchange, Coquihalla Highway (3.16 km)		
View Construction Ltd.	1,926,583.50	Awarded
Ledcor Construction Ltd.	2,104,373.56	Amended Total
Geddes Contracting Co. Ltd.	2,224,041.60	
Miller Contracting Ltd.	2,288,620.75	Amended Total
J & D Construction Ltd.	2,289,380.65	Amended Total
Nu-Road Contracting Ltd.	2,381,296.15	
Dawson Construction Limited	2,446,674.94	
Mac's Construction Services Ltd.	2,472,488.22	Amended Total
Emil Anderson Construction Co. Ltd.	2,693,345.60	
E. Lobe Contracting Ltd.	2,700,420.70	Amended Total
P. Gamache & Sons Logging Ltd.	2,763,934.75	
Goodbrand Construction Ltd.	2,988,680.68	Amended Total
Miann Construction Ltd.	3,059,805.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
ROADS (continued)		
Project C-2838: Construction, Merritt Bypass, Coquihalla Highway (5.0 km)		
Delta Aggregates Ltd.	6,012,580.13	Amended Total Awarded
Argo Industries Ltd.	6,452,114.80	Amended Total
Geddes Contracting Co. Ltd.	6,887,296.90	Amended Total
Miller Contracting Ltd.	6,936,160.30	Amended Total
Dawson Construction Limited	7,016,948.77	Amended Total
Goodbrand Construction Ltd.	7,029,061.75	Amended Total
View Construction Ltd.	7,140,206.70	Amended Total
Emil Anderson Construction Co. Ltd.	7,748,934.70	Amended Total
Tercon Contractors Ltd.	11,195,119.15	Amended Total
Project C-2839: Construction, Kwinshatin Creek to Trans Mountain Pipeline, Coquihalla Highway (6.3 km)		
Ledcor Industries Ltd.	5,586,050.52	Amended Total Awarded
Dawson Construction Limited	5,863,871.93	Amended Total
Geddes Contracting Co. Ltd.	5,912,390.65	
Tercon Contractors Ltd.	6,035,543.77	
Argo Industries Ltd.	6,233,656.45	
View Construction Ltd.	6,364,873.20	
E. Lobe Contracting Ltd.	6,548,665.40	Amended Total
Miller Contracting Ltd.	6,668,443.90	Amended Total
Emil Anderson Construction Co. Ltd.	6,985,026.76	
Kodiak Earthmovers	7,363,404.66	
Miann Construction Ltd.	7,480,811.00	
Mustang Engineering & Construction Ltd.	7,890,709.50	Amended Total
Goodbrand Construction Ltd.	8,220,168.13	Amended Total
Project C-2840: Construction, Salem Creek to Glenwalker, Coquihalla Highway (4.675 km)		
Tercon Contractors Ltd.	4,961,240.83	Amended Total Awarded
Miller Contracting Ltd.	5,331,017.10	Amended Total
Geddes Contracting Co. Ltd.	5,395,455.55	
Dawson Construction Limited	5,515,697.82	
Emil Anderson Construction Co. Ltd.	5,555,751.35	
Ledcor Industries Ltd.	5,878,492.65	Amended Total
E. Lobe Contracting Ltd.	5,985,955.37	Amended Total
Edco Construction Ltd.	6,154,737.84	
View Construction Ltd.	6,165,207.50	Amended Total
Goodbrand Construction Ltd.	6,381,799.20	Amended Total
Miann Construction Ltd.	6,429,676.00	
Project C-2841: Construction, Glenwalker to Kwinshatin Creek, Coquihalla Highway (3.50 km)		
Geddes Contracting Co. Ltd.	2,347,486.60	Awarded
View Construction Ltd.	2,525,123.46	Amended Total
Miller Contracting Ltd.	2,800,675.70	Amended Total
Nu-Road Contracting Ltd.	2,928,355.00	
Ledcor Construction Ltd.	2,985,109.98	Amended Total
Goodbrand Construction Ltd.	2,995,222.42	
Dawson Construction Ltd.	2,997,258.32	Amended Total
Tercon Contractors Ltd.	3,077,600.13	
Emil Anderson Construction Co. Ltd.	3,087,427.15	
H.B. Contracting Ltd.	3,252,581.91	Amended Total
Peters Bros. Paving (1981) Ltd.	3,281,686.10	Amended Total
Miann Construction Ltd.	3,389,200.52	
Kerkhoff Construction Group Ltd.	3,636,088.46	Amended Total
E. Lobe Contracting Ltd.	4,000,160.00	Amended Total
Peter Kiewit Sons Co. Ltd.	4,229,091.68	Amended Total
Edco Construction Ltd.	4,440,516.13	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
ROADS (continued)		
Project C-2843: Construction, Compressor Station to Salem Creek, Coquihalla Highway (2.775 km)		
J & D Construction Ltd.	2,183,142.20	Amended Total Awarded
Mac's Construction Services Ltd.	2,218,433.75	
Miller Contracting Ltd.	2,351,824.25	
Ledcor Industries Ltd.	2,415,529.50	Amended Total
Nu-Road Contracting Ltd.	2,467,131.10	
Dawson Construction Limited	2,531,618.00	
Goodbrand Construction Ltd.	2,577,052.65	Amended Total
Geddes Contracting Co. Ltd.	2,645,745.90	Amended Total
Delta Aggregates Ltd.	2,849,848.06	Amended Total
E. Lobe Contracting Ltd.	2,902,681.80	Amended Total
Emil Anderson Construction Co. Ltd.	2,957,347.15	
Miann Construction Ltd.	2,974,302.88	Amended Total
Project C-2844: Construction, Hydro Crossing to Compressor Station, Coquihalla Highway (2.85 km)		
Goodbrand Construction Ltd.	1,820,553.00	Awarded
Peters Bros. Paving (1981) Ltd.	1,903,194.00	Amended Total
Ledcor Construction Ltd.	2,019,058.00	Amended Total
Nu-Road Contracting Ltd.	2,072,134.00	Amended Total
View Construction Ltd.	2,063,500.00	Amended Total
Mac's Construction Services Ltd.	2,101,328.60	
Tercon Contractors Ltd.	2,149,386.00	
Dawson Construction Limited	2,166,551.00	
Geddes Contracting Co. Ltd.	2,171,688.00	Amended Total
Miller Contracting Ltd.	2,269,260.00	
Emil Anderson Construction Co. Ltd.	2,460,343.00	Amended Total
J & D Construction Ltd.	2,663,709.50	
Project C-2851: Clearing and Grubbing, Coldwater Crossing to Larson Hill, Coquihalla Highway		
H.E. Sanders Ltd.	92,197.60	Awarded
Larkin contracting Ltd.	105,844.76	Amended Total
S & G Construction Ltd.	126,268.88	
Spring Holdings Ltd.	134,888.76	
Echo Mountain Contracting Ltd.	191,448.13	Amended Total
Project C-2852: Construction, Crossing No. 3 to Larson Hill, Coquihalla Highway (6.34 km)		
Emil Anderson Construction Co. Ltd.	8,839,417.90	Awarded
Miann Construction Ltd.	9,192,675.31	
Dawson Construction Limited	9,492,719.92	
Miller Contracting Ltd.	9,877,249.93	Amended Total
Peter Kiewit Sons Co. Ltd.	10,718,487.90	Amended Total
View Construction Ltd.	12,199,349.10	Amended Total
Goodbrand Construction Ltd.	13,209,000.00	
Project C-2853: Construction, Ladner Creek to Shylock Landing, Coquihalla Highway (2.70 km)		
E. Lobe Contracting Ltd.	9,267,704.00	Awarded
Miann Construction Ltd.	9,307,490.00	Amended Total
Miller Contracting Ltd.	9,485,750.00	Amended Total
Geddes Contracting Co. Ltd.	10,496,565.00	Amended Total
Emil Anderson Construction Co. Ltd.	10,879,930.00	
Dawson Construction Limited	11,947,755.00	
View Construction Ltd.	12,278,705.00	
Goodbrand Construction Ltd.	13,808,563.00	Amended Total

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
ROADS (continued)		
Project C-2854: Construction, Shylock Landing to Portia, Coquihalla Highway (2.50 km)		
Miller Contracting Ltd.	10,681,490.00	Amended Total Awarded
Dawson Construction Ltd.	11,011,575.00	Amended Total
Goodbrand Construction Ltd.	11,170,396.00	Amended Total
Emil Anderson Construction Co. Ltd.	13,253,948.00	Amended Total
Geddes Contracting Co. Ltd.	18,550,245.00	Amended Total
Project C-2871: Construction, Hope to Nicolum Creek, Coquihalla Highway (8.37 km)		
Goodbrand Construction Ltd.	15,148,293.34	Amended Total Awarded
Emil Anderson Construction Co. Ltd.	15,325,653.82	
Miller Contracting Ltd.	15,473,700.60	Amended Total
Peter Kiewit Sons Co. Ltd.	24,184,826.96	Amended Total
Project C-2874: Construction, Aberdeen Interchange Trans Canada Highway and Highway 5A at Kamloops		
Dawson Construction Limited	2,579,354.26	Amended Total Awarded
Argo Industries Ltd.	2,664,211.00	
Review Construction Inc.	2,760,280.81	Amended Total
Bel Construction Ltd.	3,759,083.00	
Project C-2877: Construction, Annacis Island Paving, Annacis Highway		
Jack Cewe Ltd.	974,673.32	Awarded
Bel Construction Ltd.	997,282.02	Amended Total
C. Victor Koran Ltd.	1,020,535.99	
Winvan Paving Ltd.	1,033,693.44	Amended Total
United Contractors Ltd.	1,040,615.87	
Goodbrand Construction Ltd.	1,047,945.99	Amended Total
H.B. Contracting Ltd.	1,063,316.73	Amended Total
Imperial Paving Ltd.	1,077,564.64	Amended Total
Columbia Bitulithic Ltd.	1,082,288.09	
Miller Contracting Ltd.	1,108,385.30	Amended Total
Project C-2891: Construction, Merritt to Shuta Creek, Coquihalla Highway (8.78 km)		
Geddes Contracting Co. Ltd.	4,250,598.96	Amended Total Awarded
Dawson Construction Limited	4,539,298.05	Amended Total
View Construction Ltd.	4,621,754.00	
Goodbrand Construction Ltd.	4,871,084.06	
Tercon Contractors Ltd.	4,885,672.32	Amended Total
Review Construction Inc.	4,894,840.33	Amended Total
Miller Contracting Ltd.	5,031,678.70	
Ledcor Industries Ltd.	5,133,740.26	Amended Total
Edco Construction & Engineering Ltd.	5,769,442.28	
Mustang Construction & Engineering Lfx.	5,907,203.70	Amended Total
Emil Anderson Construction Co. Ltd.	5,994,257.74	
Miann Construction Ltd.	6,290,970.45	
Whissell Engineering Ltd.	6,438,940.28	
Project C-2906: Reconstruction, Wahleach Power Station to Cheam View, Trans Canada Highway (4.94 km)		
Jaemar Construction Co. Ltd.	6,676,135.00	Amended Total
Edco Construction Company	7,281,310.00	
Miller Contracting Ltd.	7,387,620.00	Amended Total
Emil Anderson Construction Co. Ltd.	7,777,888.00	
View Construction Ltd.	8,653,121.00	Awarded Total
Geddes Construction Co. Ltd.	8,959,008.00	Amended Total
Goodbrand Construction Ltd.	9,514,960.75	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
ROADS (continued)		
Project C-2907: Reconstruction, Cheam View to Jones Creek, Trans Canada Highway (5.73 km)		
Nu-Road Contracting Ltd.	6,878,972.60	Awarded
Edco Construction Ltd.	6,924,865.20	
Dawson Construction Limited	6,974,420.60	
Miller Contracting Ltd.	7,386,504.30	Amended Total
Miann Construction Ltd.	7,549,198.56	Amended Total
H.B. Contracting Ltd.	8,102,928.78	
Geddes Contracting Co. Ltd.	8,488,071.20	Amended Total
Goodbrand Construction Ltd.	8,915,375.25	Amended Total
Emil Anderson Construction Co. Ltd.	9,650,281.40	
Project C-2957: Installation of Wick Drains, Queensborough Area, Annacis Highway		
Western Caissons Limited	417,950.00	Awarded
Nilex Geotechnical Products Inc.	468,464.25	
Deep Foundations Contractors Ltd.	531,975.00	Amended Total
PAVING		
Project S-0084-2211: Crushing, Graded Seal Aggregate in Stockpile, Zickmantle Pit, Falkland		
Salmon Arm Ready-Mix Ltd.	56,832.00	Awarded
Okanagan Aggregates Ltd.	63,960.00	
D.M.J. Construction Ltd.	74,960.00	
Chinook Aggregate Ltd.	91,504.00	
Columbia Bitulithic Ltd.	94,232.00	
Project S-0004-2213: Crushing, Graded Seal Aggregate in Stockpile, Turcotte Pit, Pritchard		
Okanagan Aggregates Ltd.	52,920.00	Awarded Amended Total
Salmon Arm Ready-Mix Ltd.	53,960.00	
D.M.J. Construction Ltd.	67,800.00	
Chinook Aggregate Ltd.	81,320.00	
Columbia Bitulithic Ltd.	102,920.00	
Project S-2657: Asphalt Surfacing 1984/85, Elk River Valley Airport & Highway 43, Sparwood		
Grandview Blacktop Ltd.	368,115.79	Awarded
H. Williamson Blacktop & Landscaping Ltd.	378,206.00	
McNally Contractors Ltd.	402,280.00	
Okanagan Aggregates Ltd.	438,950.00	
Flathead Valley Contractors Ltd.	461,531.00	
Project S-2695: Asphalt Surfacing 1984/85, 108 Mile Airport		
Cantex Engineering & Construction Co. Ltd.	244,565.00	Awarded Amended Total
Okanagan Aggregate Ltd.	274,800.00	Amended Total
Grandview Blacktop Ltd.	289,228.00	
Columbia Bitulithic Ltd.	298,650.00	
Rorison Wiley Blacktop Ltd.	314,010.00	Amended Total
B.A. Blacktop (Kamloops) Ltd.	325,325.00	
H. Williamson Blacktop & Landscaping Ltd.	331,840.00	
Dawson Construction Limited	363,339.00	Amended Total
Central Paving & Engineering Ltd.	389,810.00	
Rorison Enterprises Ltd.	394,650.00	
West Coast Paving Co. Ltd.	426,010.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
PAVING (continued)		
Project S-2785: Reconstruction, Highway 33 and Rutland Road, City of Kelowna, Removals, Relocations and adjustments		
Peters Bros. Paving (1981) Ltd.	1,835,389.00	Awarded Amended Total
O.K. Utilities Ltd.	1,965,377.15	Amended Total
Argo Industries Ltd.	2,084,112.50	
Rempel Bros. Contracting Ltd.	2,090,438.00	
Ocean Point Contractors Ltd.	2,251,128.80	
Midvalley Construction Company	2,335,459.00	
Columbia Bitulithic Ltd.	2,387,858.00	
H.B. Contracting Ltd.	2,467,445.20	
Progressive Contracting (Langley) Ltd.	2,679,021.00	
Geddes Contracting Co. Ltd.	2,976,104.55	
Project S-2814: Asphalt Surfacing 1984/85, Merritt Highway District Boundary to Junction of Trans Canada Highway on Highway 5 (35.8 km)		
Alternative A		
Dawson Construction Limited	964,172.00	Awarded
H. Williamson Blacktop & Landscaping Ltd.	1,011,242.00	
Columbia Bitulithic Ltd.	1,035,325.25	
Peters Bros. Paving (1981) Ltd.	1,127,089.00	
Cantex Engineering & Construction Co. Ltd.	1,157,315.00	
B.A. Blacktop (Kamloops) Ltd.	1,163,812.95	
Ledcor Construction Ltd.	1,222,622.50	
Venture Paving Ltd.	1,246,115.25	
Okanagan Aggregates Ltd.	1,311,788.00	
Midvalley Construction Co.	1,351,508.00	
Alternative B		
Columbia Bitulithic Ltd.	1,043,265.25	
Dawson Construction Limited	1,085,892.00	
H. Williamson Blacktop & Landscaping Ltd.	1,181,242.00	
Venture Paving Ltd.	1,355,365.25	
Midvalley Construction Co.	1,402,508.00	
Cantex Engineering & Construction Co. Ltd.	1,429,315.00	
Okanagan Aggregates Ltd.	1,447,788.00	
B.A. Blacktop (Kamloops) Ltd.	1,567,732.95	
Project S-2815: Asphalt Surfacing 1984/85, Upper Nicola to Peter Hope Lake Road on Highway 5 (18.05 km)		
H. Williamson Blacktop & Landscaping Ltd.	572,387.50	Awarded
Cantex Engineering & Construction Co. Ltd.	583,320.00	Amended Total
Okanagan Aggregates Ltd.	628,393.16	Amended Total
Columbia Bitulithic Ltd.	632,357.50	
Peters Bros. Paving (1981) Ltd.	644,475.00	Amended Total
Dawson Construction Limited	654,963.00	
Venture Paving Ltd.	698,039.70	
Capital Asphalt Ltd.	825,325.00	
Midvalley Construction Ltd.	892,898.00	
Gee Paving Ltd.	893,775.00	
Alternative B		
H. Williamson Blacktop & Landscaping Ltd.	631,137.50	
Columbia Bitulithic Ltd.	656,767.50	
Dawson Construction Limited	673,138.00	
Okanagan Aggregates Ltd.	699,393.16	Amended Total
Venture Paving Ltd.	772,879.70	
Cantex Engineering & Construction Co. Ltd.	785,320.00	Amended Total
Midvalley Construction Ltd.	922,648.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
PAVING (continued)		
Project S-2862: Asphalt Surfacing 1984/85, Invermere Arterial Highway 674-R (4.25 km)		
Okanagan Aggregates Ltd.	368,370.00	Awarded
McNalley Contractors Ltd.	414,250.00	
Columbia Blacktop Ltd.	488,048.00	
Gee Paving Ltd.	496,722.00	
Project S-2887: Asphalt Surfacing 1984/85, Highway 16 at Tyee Crossing (3.0 km)		
West Coast Paving Co. Ltd.	263,742.11	Awarded Amended Total
Kentron Construction Ltd.	274,100.00	Amended Total
Venture Paving Ltd.	276,645.00	
Grandview Blacktop Ltd.	277,676.00	
Terrace Paving Ltd.	323,365.00	
Adventure Paving Ltd.	359,536.00	
A.C. Paving Company Ltd.	447,400.00	
Project S-2912: Reconstruction, Pandosy Street to Princess Street, Harvey Avenue, Kelowna, Highway 97		
Midvalley Construction Co. Ltd.	1,256,394.00	Awarded
O.K. Utilities Ltd.	1,280,372.33	Amended Total
Rempel Bros. Contracting Ltd.	1,366,506.00	
Peters Bros. Paving (1981) Ltd.	1,453,841.00	
Project S-2920: Asphalt Surfacing 1984/85, Logan Lake to Lac LeJeune on Meadow Creek Road (23.40 km)		
Dawson Construction Limited	598,572.50	Awarded
Columbia Bitulithic Ltd.	607,027.75	
Peters Bros. Paving (1981) Ltd.	610,640.00	
H. Williamson Blacktop & Landscaping Ltd.	687,152.50	
Cantex Engineering & Construction Co. Ltd.	692,610.00	Amended Total
Columbia Bitulithic Ltd.	718,356.25	Amended Total
Island Asphalt Ltd.	723,214.47	Amended Total
Central Paving & Engineering Ltd.	771,623.68	Amended Total
Okanagan Aggregates Ltd.	790,925.00	
Gee Paving Ltd.	791,761.25	
Capital Asphalt Ltd.	832,797.00	
West Coast Paving Co. Ltd.	842,071.25	
Midvalley Construction Ltd.	847,808.00	Amended Total
Grandview Blacktop Ltd.	919,630.78	
Project S-2921: Asphalt Surfacing 1984/85, Bethlehem Mine Access Road to Logan Lake on Highland Valley Road (13.2 km)		
Peters Bros. Paving (1981) Ltd.	476,221.00	Awarded
Columbia Bitulithic Ltd.	488,438.00	
Dawson Construction Limited	502,806.00	
Cantex Engineering & Construction Co. Ltd.	534,597.00	Amended Total
H. Williamson Blacktop & Landscaping Ltd.	545,329.50	
Island Asphalt Ltd.	560,415.20	
Okanagan Aggregates Ltd.	574,669.00	
Columbia Blacktop Ltd.	586,569.00	
West Coast Paving Co. Ltd.	594,157.50	
Grandview Blacktop Ltd.	610,537.26	Amended Total
Gee Paving Ltd.	649,130.00	
Capital Asphalt Ltd.	661,232.00	Amended Total
Central Paving & Engineering Ltd.	688,474.74	Amended Total
Midvalley Construction Ltd.	768,071.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
PAVING (continued)		
Project S-2922: Asphalt Surfacing 1984/85, Ashcroft to the Highland Valley Trailer Park on Highland Valley Road (18.95 km)		
Peters Bros. Paving (1981) Ltd.	654,365.25	Awarded Amended Total
Dawson Construction Limited	708,420.50	
Cantex Engineering & Construction Co. Ltd.	729,630.00	Amended Total
Island Asphalt Ltd.	731,953.80	
H. Williamson Blacktop & Landscaping Ltd.	752,384.50	
Columbia Bitulithic Ltd.	766,098.40	Amended Total
Capitol Asphalt Ltd.	785,550.00	
Grandview Blacktop Ltd.	838,467.90	
West Coast Paving Co. Ltd.	865,037.50	
Okanagan Aggregates Ltd.	871,554.50	
Midvalley Construction Co. Ltd.	877,698.00	Amended Total
Central Paving & Engineering Ltd.	929,980.00	
Columbia Blacktop Ltd.	1,004,580.00	
Gee Paving Ltd.	1,075,522.50	
BRIDGES		
Project B-0894: Construction Complete, Annacis Channel Moveable Bridge No. 2760		
Sceptre-Riedel-Dawson Constructors Ltd.	9,842,000.00	Awarded
Dillingham Construction Ltd.	10,363,014.00	
Brittain Steel Ltd.	10,418,187.00	
Fraser River Piledriving Company Ltd.	10,526,597.91	Amended Total
Pitts Engineering Construction	10,555,939.00	
Armeco Construction Ltd.	10,625,051.94	Amended Total
Northern Construction Company Ltd.	11,294,153.00	
Goodbrand Construction Ltd.	11,323,384.00	Amended Total
The Foundation Company of Canada Ltd.	11,324,330.00	
Miller Contracting Ltd.	11,572,789.00	
Peter Kiewit Sons Co. Ltd.	11,601,979.00	
Van Construction	11,678,288.25	
George Wimpey Canada Limited	13,416,501.06	
Commonwealth Construction Company Limited	13,973,544.45	
Project B-1420 Contract No. 2: Pattullo Bridge South Approach Spans Retrofit, Bearing Replacement at Bent Nos. 11, 12, 13 & 14		
Van Construction	1,026,687.00	Awarded Amended Total
Canron Inc. Western Bridge Division	1,276,724.00	Amended Total

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
BRIDGES (continued)		
Project B-2455: Annacis Bridge 2753 North Approach N15 to N20		
Concrete Alternative		
The Foundation Company of Canada Ltd.	5,831,579.00	Awarded
Interland Contractors Ltd.	6,032,475.30	
Northern Construction Co. Ltd.	6,065,646.00	
Van Construction	6,229,943.00	
Dillingham Construction Ltd.	6,247,545.00	
Hansa Construction Ltd.	6,360,676.00	
Kingston Construction Ltd.	6,407,483.00	
Jaemar Construction Co. Ltd.	6,451,382.00	
George Wimpey Canada Ltd.	6,459,740.60	
Armeco Construction Ltd.	6,506,476.00	
Commonwealth Construction Co. Ltd.	6,518,825.00	
Miller Contracting Ltd.	6,534,168.00	
Grimwood Construction Co. Ltd.	6,685,024.00	
Riedel Construction Ltd.	6,712,211.00	
Interior Contracting Co. Ltd.	6,746,741.00	
Peter Kiewit Sons Co. Ltd.	6,913,609.00	
Pigott Construction Western Division, Calgary	6,973,528.00	Amended Total
G.W. Ledingham Ltd.	6,998,343.00	Amended Total
W.A. Stephenson Const. (Western) Ltd.	7,282,700.00	
Pitts Engineering Construction	7,451,645.00	
PCL-Paschen-Pike (A Joint Venture)	13,709,099.00	Amended Total
Steel Alternative		
The Foundation Company of Canada Ltd.	6,527,232.05	
Interland Contractors Ltd.	6,649,648.05	
Northern Construction Co. Ltd.	6,715,413.00	
Dillingham Construction Ltd.	6,923,541.25	
Commonwealth Construction Co. Ltd.	6,948,763.40	
Miller Contracting Ltd.	7,063,168.00	
Armeco Construction Ltd.	7,131,437.40	Amended Total
Jaemar Construction Co. Ltd.	7,214,664.00	
Hansa Construction Ltd.	7,229,708.00	
Riedel Construction Ltd.	7,241,666.00	
Van Construction	7,278,671.00	
Peter Kiewit Sons Co. Ltd.	7,419,052.00	
Grimwood Construction Co. Ltd.	7,431,825.50	
Pigott Construction Western Division, Calgary	7,481,629.00	
G.W. Ledingham Ltd.	7,571,243.45	
Interior Contracting Co. Ltd.	7,686,065.20	
W.A. Stephenson Construction (Western) Ltd.	7,780,573.00	
Pitts Engineering Construction	8,217,943.00	
PCL-Paschen-Pike (A Joint Venture)	13,980,766.50	Amended Total
Project B-2502: Sidewalk Improvement to Wilkinson Bridge No. 423, Trans Canada Highway		
G.W. Carlson Construction Ltd.	76,300.00	Awarded
Wheaton Construction Ltd.	89,500.00	
West Shore Constructors Ltd.	96,618.00	
Max Helmer Construction Ltd.	104,900.00	
Dominion Bridge - Vancouver	163,800.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
BRIDGES (continued)		
Project B-2599: Construction Complete, Annacis Channel East Bridge No. 2763, Annacis Highway		
Concrete Alternative - "A" Unfendered		
Dillingham Construction Ltd.	10,584,068.00	Awarded
The Foundation Company of Canada Ltd.	11,257,007.70	Amended Total
Fraser River Piledriving Co. Ltd.	11,466,200.00	
Pigott Construction Limited	11,961,910.31	Amended Total
Peter Kiewit Sons Co. Ltd.	12,060,685.00	
Miller Contracting Ltd.	12,140,340.40	Amended Total
Sceptre-Riedel-Dawson Constructors Ltd.	12,667,000.00	
Northern Construction Co. Ltd.	13,820,878.00	
W.A. Stephenson Construction (Western) Ltd.	14,724,123.77	Amended Total
Concrete Alternative - "B" Fendered		
Dillingham Construction Ltd.	11,770,682.00	
Fraser River Piledriving Co. Ltd.	12,202,265.00	
The Foundation Company of Canada Ltd.	12,515,525.86	Amended Total
Pigott Construction Limited	12,939,451.31	Amended Total
Peter Kiewit Sons Co. Ltd.	13,062,485.00	
Sceptre-Riedel-Dawson Constructors Ltd.	13,533,000.00	
Northern Construction Co. Ltd.	14,965,888.00	
W.A. Stephenson Construction (Western) Ltd.	15,859,623.71	Amended Total
Steel Alternative		
Dillingham Construction Ltd.	13,350,000.00	Not Awarded
Project B-2636: Annacis Bridge No. 2753 South Approach		
Dillingham Construction Ltd.	16,991,793.00	Awarded
Pigott Construction Limited	17,059,465.00	
Van Construction	17,539,259.61	
Sandbar Construction Limited	18,324,600.00	
George Wimpey Canada Limited	18,739,254.15	
Cana Construction Co. Ltd.	18,944,700.00	
Foundation-Pitts (Joint Venture)	19,379,135.00	
PCL-Paschen-Pike (Joint Venture)	19,570,081.00	Amended Total
W.A. Stephenson Construction (Western) Ltd.	19,695,800.00	Amended Total
Commonwealth Construction Company Limited	21,719,469.00	
Goodbrand Construction Ltd.	22,659,281.00	
Project B-2637: Annacis Bridge 2753 North Approach N3 to N15		
Concrete Alternative		
Dillingham Construction Ltd.	11,812,651.00	Awarded
Pigott Construction Limited	11,749,523.00	
Armeco Construction Ltd.	12,220,000.00	
Van Construction	12,235,008.00	
PCL-Paschen-Pike (Joint Venture)	12,532,052.00	
Sceptre-Riedel-Dawson Constructors Ltd.	13,091,000.00	
Commonwealth Construction Company Limited	13,510,565.60	
The Foundation Company of Canada Ltd.	13,990,000.00	
W.A. Stephenson Construction (Western) Ltd.	14,055,440.00	
Steel Alternative		
Armeco Construction Ltd.	13,565,862.00	Not Awarded
PCL-Paschen-Pike (Joint Venture)	14,082,951.00	
Van Construction	14,169,620.00	
Commonwealth Construction Company Limited	15,253,768.50	
The Foundation Company of Canada Limited	16,007,678.00	
W.A. Stephenson Construction (Western) Limited	17,607,500.00	Amended Total
Project B-2645: Repairs and Modifications, Charles Creek Bridge No. 1457, Garibaldi Highway 99		
Talus Construction	32,596.00	Awarded
Interland Contractors Ltd.	56,922.00	
Graeholdt Construction Corp.	59,099.75	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
BRIDGES (continued)		
Project B-2646: Construction Complete, Magnesia Creek Bridge No. 1452, Garibaldi Highway 99		
Interland Contractors Limited	1,508,949.40	Awarded
Fas-Trac Construction Ltd.	1,602,328.31	Amended Total
Miller Contracting Ltd.	1,615,496.00	Amended Total
Dawson & Hall Ltd.	1,694,325.41	Amended Total
Jack Cewe Ltd.	1,699,890.67	
Jaemar Construction Co. Ltd.	1,707,980.00	Amended Total
Kerkhoff Construction Group Ltd.	1,756,696.51	Amended Total
Hansa Construction Ltd.	1,807,837.00	
Kingston Construction Ltd.	1,836,520.85	
G.W. Carlson Construction Ltd.	1,866,205.00	
Goodbrand Construction Ltd.	1,888,095.00	Amended Total
Canron Inc. Western Bridge Division	1,931,196.78	Amended Total
Daiwood Construction Co. Ltd.	2,077,610.00	Amended Total
Stikine Construction Ltd.	2,229,373.40	
Project B-2649: Construction Complete, Pritchard Bridge No. 297, Pinantan Road		
Kenyon Construction Ltd.	445,601.00	Awarded Amended Total
Sea-Land Piledriving Ltd.	578,261.00	
Quadra Construction Co. Ltd.	701,000.00	Amended Total
Review Construction Company Inc.	719,078.50	
Interior Contracting Co. Ltd.	736,750.00	Amended Total
Max Helmer Construction Ltd.	759,345.00	
Northwest Piledriving Ltd.	877,180.00	
Sygnet Construction Co. Ltd.	914,690.00	Amended Total
Stikine Construction Ltd.	988,477.00	
Fraser River Piledriving Co. Ltd.	1,407,300.00	
Project B-2651: Construction Complete, Cascade Creek Bridge No. 6037 on Sylvester Road and Carratt Creek Bridge No. 8070 on Carratt Road		
Fas-Trac Construction Ltd.	215,702.48	Awarded Amended Total
Hallcraft Construction Ltd.	249,872.00	
Delta-Star Contracting Ltd.	251,203.00	
Lalonde Homes Ltd.	258,621.00	
West Shore Constructors Ltd.	260,474.00	
Miller Contracting Ltd.	267,129.00	
Van Construction	269,080.00	
G.W. Carlson Construction Ltd.	269,142.00	
Jack Cewe Ltd.	270,119.77	
Interior Contracting Co. Ltd.	273,264.00	
Sefton Construction Ltd.	281,801.85	
Kingston Construction Ltd.	282,251.00	
Talus Construction Ltd.	282,437.80	
Morse Construction Ltd.	284,483.00	
Manning Construction Ltd.	296,849.04	
Inland Bridge Ltd.	303,588.03	
Jaemar Construction Co. Ltd.	311,335.00	
Wesco Contracting Ltd.	451,060.00	Amended Total
Project B-2684R: Cleaning & Painting, Sooke River Bridge No. 396		
York Painting Ltd.	57,750.00	Awarded
Imperial Painting & Decorating Ltd.	62,195.00	
Clark & Pattison Painting Contractors Ltd.	68,900.00	
Acme Commercial Painting (Victoria) Ltd.	74,283.00	
Old Country Industrial Contractors (1973) Ltd.	83,619.00	Amended Total
Dynacor Coatings Ltd.	120,620.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
BRIDGES (continued)		
Project B-2690: Modifications to Queensborough Bridge No. 1553, Annacis Highway		
Van Construction	2,571,544.00	Awarded Amended Total
Jaemar Construction Co. Ltd.	2,614,215.00	
Miller Contracting Ltd.	2,866,140.00	
Foundation Company of Canada Ltd.	2,879,841.00	
W.A. Stephenson Construction (Western) Ltd.	2,893,450.00	Amended Total
Goodbrand Construction Ltd.	2,964,075.00	Amended Total
Project B-2787: Construction Complete, Silverhope Underpass No. 2617 & Floods Underpass No. 2716, Trans Canada Highway		
Fas-Trac Construction Ltd.	1,900,905.38	Awarded Amended Total
Kerkhoff Construction Group Ltd.	1,902,587.85	Amended Total
Manning Construction Ltd.	1,991,216.74	
Sefton Construction Ltd.	2,009,171.32	
Miller Contracting Ltd.	2,068,236.99	
Jaemar Construction Co. Ltd.	2,098,170.77	
M.D.M. Enterprises Ltd.	2,100,503.63	
Walter Cabott Construction Ltd.	2,107,604.10	
Kingston Construction Ltd.	2,112,550.57	
River Construction Ltd.	2,156,831.34	
Goodbrand Construction Ltd.	2,160,369.40	
Interior Contracting Co. Ltd.	2,183,327.18	
Kenyon Construction Ltd.	2,199,872.11	
Wesco Contracting Ltd.	2,321,366.19	
G.W. Carlson Construction Ltd.	2,336,199.00	
Mandrax Enterprises Ltd.	2,383,749.80	
W.A. Stephenson Construction (Western) Ltd.	2,384,920.00	
Andersen Contracting Ltd.	2,513,383.15	
Project B-2788: Modifications to Pier No. 7, Six Mile Bridge, Highway 5		
Theo Construction Ltd.	169,303.00	Awarded
S. Henningson Construction Ltd.	175,771.25	
Greybeck Construction Ltd.	199,223.00	
Kenyon Construction Ltd.	203,911.00	
Crossroads Construction Co. Ltd.	206,323.00	Amended Total
Talus Construction Ltd.	207,666.00	Amended Total
G.D. Shaw Construction Ltd.	213,336.00	Amended Total
Kingston Construction Ltd.	214,700.50	
Hansa Construction Ltd.	225,000.00	
Review Construction Inc.	231,870.07	Amended Total
Max Helmer Construction Ltd.	242,012.00	
Project B-2789: Construction Complete, Nicolum Creek Bridge No. 2828, Coquihalla Highway		
Goodbrand Construction Ltd.	5,190,930.00	Awarded Amended Total
Miller Contracting Ltd.	5,266,890.60	Amended Total
Cana Construction Co. Ltd.	5,358,835.00	
Jaemar Construction Co. Ltd.	5,579,959.80	Amended Total
Kingston Construction Ltd.	5,589,260.60	Amended Total
M.D.M. Enterprises Ltd.	5,786,422.11	Amended Total

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
BRIDGES (continued)		
Project B-2790: Construction Complete, Tomberry Road Bridge		
River Construction Ltd.	561,810.65	Awarded
Kingston Construction Ltd.	562,998.04	Amended Total
Sefton Construction Ltd.	574,717.39	Amended Total
Kenyon Construction Ltd.	581,792.00	Amended Total
Fas-Trac Construction Ltd.	584,478.17	Amended Total
Talus Construction Ltd.	609,580.40	Amended Total
Kerkhoff Construction Group Ltd.	611,283.95	
M.D.M. Enterprises Ltd.	620,160.51	Amended Total
Jaemar Construction Co. Ltd.	625,082.50	Amended Total
Hallcraft Construction Co. Ltd.	628,973.20	Amended Total
Sandbar Construction Ltd.	637,349.00	
Kanish Construction Corp.	649,292.32	
Wesco Contracting Ltd.	688,630.00	
G.W. Carlson Construction Co. Ltd.	768,255.00	
Verigin Construction Ltd.	1,240,050.00	Amended Total
Project B-2791: Construction Complete, Cliveden Avenue Underpass No. 2762, Annacis Highway		
Kingston Construction Ltd.	897,973.30	Awarded
Talus Construction Ltd.	945,163.00	Amended Total
Delta Star Contracting	949,001.00	Amended Total
Armeco Construction	968,000.00	Amended Total
Maple Engineering & Construction	979,770.00	
The Foundation Company of Canada Ltd.	983,004.00	
Jack Cewe Ltd.	1,038,863.15	
Smith Bros. & Wilson	1,052,575.25	Amended Total
Van Construction		
Project B-2797: Construction Complete, Jessica Bridge No. 2724, Coquihalla Highway		
Kerkhoff Construction Group Ltd.	1,650,802.38	Awarded Amended Total
Kingston Construction Ltd.	1,727,158.00	
Sandbar Construction Ltd.	1,733,400.00	
Sefton Construction Ltd.	1,738,376.17	Amended Total
Kanish Construction Corp.	1,742,486.75	Amended Total
Manning Construction Ltd.	1,762,321.00	Amended Total
Wesco Contracting Ltd.	1,809,990.00	
M.D.M. Enterprises Ltd.	1,886,946.04	Amended Total
Kenyon Construction Ltd.	1,901,972.00	Amended Total
Jack Cewe Ltd.	1,913,966.90	
Andersen Contracting Ltd.	2,068,074.00	
Project B-2799: Construction, 64th Avenue B.N.R. Overhead No. 2758 & 64th Avenue Underpass No. 2759, Annacis Highway		
B.G.M. Construction Ltd.	1,039,000.00	Awarded
Delta Star Contracting Ltd.	1,070,000.50	Amended Total
M.D.M. Enterprises Ltd.	1,116,962.29	Amended Total
Talus Construction Ltd.	1,127,590.54	Amended Total
Spectrum Construction Ltd.	1,131,083.28	Amended Total
Jaemar Construction Co. Ltd.	1,138,993.00	Amended Total
Kingston Construction Ltd.	1,139,609.53	
Smith Bros. & Wilson Ltd.	1,163,370.72	Amended Total
Sandbar Construction Ltd.	1,173,686.00	
Manning Construction Ltd.	1,179,980.00	Amended Total
Armeco Construction Ltd.	1,203,710.08	Amended Total
Jack Cewe Ltd.	1,225,797.21	Amended Total
Commonwealth Construction Co. Ltd.	1,246,881.57	Amended Total
Van Construction	1,251,494.00	Amended Total
Grimwood Construction Co. Ltd.	1,299,807.45	Amended Total
Seaward Construction Ltd.	1,310,260.67	Amended Total
Andersen Contracting Ltd.	1,351,310.55	
W.A. Stephenson Construction (Western) Ltd.	1,416,176.70	Amended Total

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
BRIDGES (continued)		
Project B-2818 Contract No. 2: Substructure, Dry Gulch Bridge No. 2827, Coquihalla Highway		
G.W. Carlson Construction	827,749.00	Awarded
Wesco Contracting Ltd.	862,713.00	
Manning Construction Ltd.	973,800.00	Amended Total
Goodbrand Construction Ltd.	1,091,996.00	
Sandbar Construction Ltd.	1,096,727.00	
Kenyon Construction Ltd.	1,096,974.00	Amended Total
Kingston Construction Ltd.	1,106,813.00	
Mandrax Enterprises Ltd.	1,119,676.00	Amended Total
Walter Cabott Construction Ltd.	1,217,478.00	Amended Total
Hansa Construction Ltd.	1,247,620.00	
Miller Contracting Ltd.	1,264,019.00	Amended Total
Jaemar Construction Co. Ltd.	1,376,619.00	Amended Total
Interior Contracting Company Ltd.	1,393,692.80	Amended Total
M.D.M. Enterprises Ltd.	1,465,000.00	
Aeon Construction Ltd.	1,747,000.00	Amended Total
Project B-2818 Contract No. 3: Superstructure, Dry Gulch Bridge No. 2827, Coquihalla Highway		
Brittain Steel Ltd.	6,784,029.00	Awarded
Canron Inc. Western Bridge Div.	7,544,898.00	
Verigin Construction Ltd.	7,997,046.08	Amended Total
Dominion Bridge	8,871,037.84	Amended Total
Project B-2826: Construction Complete, Deneau Creek Bridge No. 2775, Coquihalla Highway		
Kanish Construction Corp.	423,360.23	Awarded Amended Total
Sandbar Construction Ltd.	468,792.00	
G.W. Carlson Construction Ltd.	477,492.00	Amended Total
Talus Construction Ltd.	491,353.00	Amended Total
Action Construction & Surveying Services Ltd.	497,383.48	Amended Total
Theo Construction Ltd.	503,506.25	Amended Total
M.D.M. Enterprises Ltd.	506,214.18	Amended Total
Cubit Construction Management Ltd.	529,989.00	Amended Total
Jack Cewe Ltd.	538,941.00	
Smith Bros. & Wilson Limited	543,710.10	Amended Total
Kingston Construction Ltd.	545,746.60	
Dalwood Construction Co. Ltd.	553,639.00	
View Construction Ltd.	553,657.00	
Jaemar Construction Co. Ltd.	554,744.00	Amended Total
Interior Contracting Company Ltd.	586,387.50	Amended Total
Morse Construction Ltd.	596,889.00	
Cana Construction Co. Ltd.	709,000.00	
Andersen Contracting Ltd.	743,139.25	
Deck Management Ltd.	1,247,200.00	
Project B-2828: Construction Complete, Hope Overpass No. 2645 and Thacker Creek Overpass No. 2826, Coquihalla Highway		
Kerkhoff Construction Group Ltd.	2,524,430.70	Awarded Amended Total
Jaemar Construction Co. Ltd.	2,639,364.00	
Kingston Construction Ltd.	2,684,900.10	
River Construction Ltd.	2,692,538.90	
Belmont Construction Ltd.	2,718,469.27	
M.D.M. Enterprises Ltd.	2,731,539.39	Amended Total
Sefton Construction Ltd.	2,823,616.16	Amended Total
Smith Bros. & Wilson Ltd.	2,880,538.04	Amended Total
Miller Contracting Ltd.	2,886,347.00	Amended Total
Goodbrand Construction Ltd.	2,892,197.00	Amended Total
Interior Contracting Company Ltd.	2,951,770.10	Amended Total
Nu-Trend Construction Ltd.	3,255,680.00	Amended Total
Jack Cewe Ltd.	3,262,669.07	
Dillingham Construction Ltd.	3,462,967.00	Amended Total
W.A. Stephenson Construction (Western) Ltd.	3,571,650.00	Amended Total

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
BRIDGES (continued)		
Project B-2829: Construction Complete, Peers Bridge No. 2692, Coquihalla Highway		
River Construction Ltd.	1,888,220.00	Awarded
Sefton Construction Ltd.	1,937,434.86	Amended Total
Kerkhoff Construction Group Ltd.	1,947,833.48	Amended Total
M.D.M. Enterprises Ltd.	1,992,526.30	Amended Total
Hallcraft Construction Co. Ltd.	2,010,959.50	
Smith Bros. & Wilson Ltd.	2,011,827.83	Amended Total
Miller Contracting Ltd.	2,015,300.70	Amended Total
Kingston Construction Ltd.	2,036,161.66	
Greyback Construction Ltd.	2,078,440.94	Amended Total
Morse Construction Ltd.	2,080,025.00	Amended Total
Theo Construction Ltd.	2,104,002.60	Amended Total
D.G.S. Construction Company Ltd.	2,173,421.00	Amended Total
Andersen Contracting Ltd.	2,178,934.70	
Crossroad Construction Co. Ltd.	2,203,461.00	Amended Total
Tehcon Construction Services Ltd.	2,212,080.40	
Goodbrand Construction Ltd.	2,230,734.00	Amended Total
Hansa Construction Ltd.	2,409,412.00	
Project B-2830: Construction Complete, Portia Bridge No. 2835, Coquihalla Highway		
M.D.M. Enterprises Ltd.	1,994,844.12	Awarded Amended Total
Sefton Construction Ltd.	2,155,302.94	Amended Total
Kingston Construction Ltd.	2,280,228.80	
Miller Contracting Ltd.	2,324,359.00	Amended Total
Hallcraft Construction Co. Ltd.	2,466,335.00	Amended Total
Andersen Contracting Ltd.	2,501,973.60	
Batoni Structures (1979) Ltd.	3,163,210.00	Amended Total
Project B-2832: Construction Complete, Alexander Creek Bridge No. 2849, Southern Trans-Provincial Highway 3		
Goodbrand Construction Ltd.	5,577,861.00	Awarded Amended Total
Surrey Iron Works Ltd.	5,849,465.00	
Miller Contracting Ltd.	5,911,800.00	Amended Total
Peter Kiewit Sons Co. Ltd.	6,424,444.00	Amended Total
Precision Civil Installations Ltd.	8,832,240.00	
Project B-2833: Construction Complete, Dewdney Creek Bridge No. 2748, Coquihalla Highway		
Sefton Construction Ltd.	558,336.76	Awarded Amended Total
Kanish Construction Corp.	586,508.80	
Kingston Construction Ltd.	591,303.49	Amended Total
Miller Contracting Ltd.	607,196.00	Amended Total
Talus Construction Ltd.	612,957.00	Amended Total
Jaemar Construction Ltd.	618,917.00	Amended Total
Kenyon Construction Ltd.	620,649.00	Amended Total
Bilco Construction Ltd.	622,529.00	
Interior Contracting Co. Ltd.	636,089.06	Amended Total
Maple Engineering & Construction Canada Ltd.	667,800.45	Amended Total
Jack Cewe Ltd.	683,963.00	
Andersen Contracting Ltd.	769,029.50	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
BRIDGES (continued)		
Project B-2866: Construction complete, 3 Mile Bridge No. 6373 on Spences Bridge to Merritt, Highway 8		
Theo Construction Ltd.	613,761.60	Awarded
Delta-Star Contracting Ltd.	670,127.00	
Interior Contracting Co. Ltd.	698,949.80	
Kerkhoff Construction Group Ltd.	699,532.13	Amended Total
Manning Construction Ltd.	705,436.11	
Walter Cabott Construction Ltd.	717,010.00	
G.W. Carlson Construction Ltd.	717,709.00	
Sandbar Construction Ltd.	721,230.00	
Jaemar Construction Co. Ltd.	733,879.00	
Juniper Construction Ltd.	742,204.07	Amended Total
Kingston Construction Ltd.	749,706.40	
Miller Contracting Ltd.	753,893.20	
Kenyon Construction Ltd.	782,011.00	
Andersen Contracting Ltd.	798,015.00	
Wesco Contracting Ltd.	815,776.00	
5-S Contractors Ltd.	823,572.00	
Project B-2876: Construction complete, Ladner Creek Bridge No. 2853, Coquihalla Highway		
Wesco Contracting Ltd.	2,405,840.00	Awarded
Sefton Construction Ltd.	2,417,435.10	Amended Total
Miller Contracting Ltd.	2,439,040.00	
Goodbrand Construction Ltd.	2,440,181.00	Amended Total
Goodbrand Construction Ltd.	2,663,181.00	Amended Total Alternate
Kingston Construction Ltd.	2,458,169.00	
Jaemar Construction Co. Ltd.	2,483,694.00	Amended Total
Kerkhoff Construction Group Ltd.	2,488,916.86	
Manning Construction Ltd.	2,500,000.00	Amended Total
Interior Contracting Company Limited	2,713,093.80	Amended Total
Cana Construction Co. Ltd.	2,724,000.00	
Jack Cewe Ltd.	2,729,477.00	
Sandbar Construction Ltd.	2,739,000.00	
Interior Contracting Company Limited	2,804,893.80	Amended Total Alternate
W.A. Stephenson Construction (Western) Ltd.	2,845,750.00	Amended Total
Morse Construction Ltd.	3,115,508.00	Alternate
Peter Kiewit Sons Co. Ltd.	4,304,810.00	Amended Total
Project B-2879: Construction complete, Juliet Creek Bridge No. 2836 and Bottletop Bridge No. 2837, Coquihalla Highway		
Kerkhoff Construction Group Ltd.	3,166,295.72	Amended Total Awarded
Kenyon Construction Ltd.	3,456,114.00	Amended Total
Kingston Construction Ltd.	3,509,365.98	
Belmont Construction Ltd.	3,549,481.46	
M.D.M. Enterprises Ltd.	3,669,959.25	Amended Total
Batoni Structures (1979) Ltd.	4,415,093.68	Amended Total
Project B-2880: Construction complete, Silverhope Creek Bridge No. 2577, Trans Canada Highway		
Kerkhoff Construction Group Ltd.	2,082,052.00	Amended Total Awarded
Sefton Construction Ltd.	2,130,659.14	Amended Total
River Construction Ltd.	2,137,563.00	
Hallcraft Construction Co. Ltd.	2,257,381.00	Amended Total
Jack Cewe Ltd.	2,269,112.00	
Kingston Construction Ltd.	2,279,150.94	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
BRIDGES (continued)		
Project B-2881: Construction complete, Henning Bridge No. 2830 and Coquihalla Lanes Underpass No. 2831, Coquihalla Highway		
Kerkhoff Construction Group Ltd.	1,064,849.75	Amended Total Awarded
Kanish Construction Corp.	1,510,420.00	
Interior Contracting Co. Ltd.	1,527,033.00	
Manning Construction Ltd.	1,554,110.00	Amended Total
Sandbar Construction Ltd.	1,583,483.00	
G.W. Carlson Construction Ltd.	1,609,740.00	Amended Total
Kenyon Construction Ltd.	1,666,429.00	Amended Total
Kingston Construction Ltd.	1,690,142.54	Amended Total
Miller Contracting Ltd.	1,710,991.00	Amended Total
Wesco Contracting Ltd.	1,738,120.00	
Verigin Construction Ltd.	1,821,145.47	Amended Total
Jaemar Construction Co. Ltd.	1,839,045.00	Amended Total
Andersen Contracting Ltd.	1,887,572.00	
Morse Construction Ltd.	2,260,118.00	
Jack Cewe Ltd.	2,562,768.10	
Project B-2884: Construction complete, Kingsvale Bridge No. 2841, Coquihalla Highway		
Kerkhoff Construction Group Ltd.	1,823,655.00	Amended Total Awarded
Kingston Construction Ltd.	1,843,094.50	
Kenyon Construction Ltd.	1,912,211.00	Amended Total
Belmont Construction Ltd.	1,995,336.60	
Jack Cewe Ltd.	2,030,237.00	
Interior Contracting Co. Ltd.	2,162,051.50	Amended Total
Project B-2885: Construction complete, Kingsvale Overhead No. 2845, Coquihalla Highway		
Hallcraft Construction Ltd.	2,309,058.00	Awarded
Kerkhoff Construction Group Ltd.	2,430,750.10	Amended Total
MacKim Management & Investment Ltd.	2,457,627.00	
Smith Bros. & Wilson Limited	2,465,799.64	Amended Total
Batoni Structures (1979) Ltd.	2,488,303.24	Amended Total
Crossroads Construction Co. Ltd.	2,549,486.00	Amended Total
Kenyon Construction Ltd.	2,617,214.00	Amended Total
Andersen Contracting Ltd.	2,759,196.00	
Project B-2886: Construction complete, Carolin Bridge No. 2767, Coquihalla Highway		
Sefton Construction Ltd.	1,613,703.55	Amended Total Awarded
Kanish Construction Corp.	1,663,666.75	
Kerkhoff Construction Group Ltd.	1,670,663.71	Amended Total
Miller Contracting Ltd.	1,717,877.00	Amended Total
Kingston Construction Ltd.	1,723,329.77	
Manning Construction Ltd.	1,724,894.00	Amended Total
Sandbar Construction Ltd.	1,726,515.00	
M.D.M. Enterprises Ltd.	1,742,464.35	Amended Total
Kenyon Construction Ltd.	1,762,958.00	Amended Total
G.W. Carlson Construction Ltd.	1,764,677.00	Amended Total
Interior Contracting Co. Ltd.	1,768,069.74	Amended Total
Jack Cewe Ltd.	1,791,127.80	
Wesco Contracting Ltd.	1,798,590.00	
Nu-Trend Construction Ltd.	1,901,987.00	Amended Total
W.A. Stephenson Construction (Western) Ltd.	1,964,675.00	Amended Total
Andersen Contracting Ltd.	2,066,026.50	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
BRIDGES (continued)		
Project B-2898: Construction complete, Curnow Bridge No. 0892, Spences Bridge–Merritt, Highway 8		
Kenyon Construction Ltd.	617,537.00	Amended Total Awarded
Theo Construction Ltd.	735,556.75	Amended Total
Delta-Star Contracting Ltd.	739,824.00	
Kingston Construction Ltd.	742,714.20	
Bilco Construction Ltd.	747,979.00	
Sandhar Construction Ltd.	769,350.00	
Talus Construction Ltd.	789,908.00	Amended Total
Manning Construction Ltd.	799,145.00	Amended Total
Interior Contracting Co. Ltd.	813,737.15	Amended Total
Juniper Construction Ltd.	826,129.89	Amended Total
Cana Construction Co. Ltd.	869,000.00	
Jaemar Construction Co. Ltd.	883,784.75	Amended Total
Andersen Contracting Ltd.	896,415.00	Amended Total
Project B-2924: Annacis Bridge No. 2753 North Approach N20 to North Abutment		
Kingston Construction Ltd.	2,566,730.00	Awarded
Smith Bros. & Wilson Ltd.	2,612,949.57	Amended Total
Armeco Construction Ltd.	2,635,745.00	
M.D.M. Enterprises Ltd.	2,735,740.46	Amended Total
Jaemar Construction Co. Ltd.	2,768,795.00	Amended Total
The Foundation Company of Canada Ltd.	2,806,795.00	
W.A. Stephenson Construction (Western) Ltd.	2,975,618.56	Amended Total
Dillingham Construction Ltd.	3,087,988.00	Amended Total
Project B-2929: Construction complete, 72nd Avenue B.N.R. Overhead No. 2822, Annacis Highway		
Concrete Alternative		
Grimwood Construction Co. Ltd.	1,491,948.00	Amended Total Awarded
Armeco Construction Ltd.	1,579,000.00	
Cana Construction Co. Ltd.	1,598,500.00	
Smith Bros. & Wilson Ltd.	1,606,271.48	Amended Total
M.D.M. Enterprises Ltd.	1,606,342.38	Amended Total
W.A. Stephenson Construction (Western) Ltd.	1,751,095.00	Amended Total
Van Construction	1,775,625.44	Amended Total
Jaemar Construction Co. Ltd.	1,781,513.90	Amended Total
Kingston Construction Ltd.	1,785,174.36	Amended Total
Dillingham Construction Ltd.	1,859,035.00	Amended Total
Steel Alternative		
Armeco Construction Ltd.	1,799,000.00	
Van Construction	1,925,126.31	
Smith Bros. & Wilson Ltd.	1,985,754.32	Amended Total
Dillingham Construction Ltd.	2,059,635.00	Amended Total
M.D.M. Enterprises Ltd.	2,098,604.82	Amended Total
W.A. Stephenson Construction (Western) Ltd.	2,745,410.00	Amended Total
Jaemar Construction Co. Ltd.	3,596,192.70	Amended Total
Project B-2939: Construction complete, Murray Bridge 2838, Brook Bridge 2839 and Brodie Bridge 2840, Coquihalla Highway		
Belmont Construction Ltd.	3,899,139.73	Amended Total Awarded
Jaemar Construction Co. Ltd.	4,057,000.00	
Kerkhoff Construction Group Ltd.	4,065,837.70	Amended Total
Kingston Construction Ltd.	4,119,566.30	
Kenyon Construction Ltd.	4,222,097.00	Amended Total
Goodbrand Construction Ltd.	4,289,987.00	Amended Total
Jack Cewe Ltd.	4,530,670.30	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
GRAVEL CRUSHING		
Project M-2511 – Crushed Granular Aggregate in Stockpile		
Contract 0001: Bulgar Pit, Chilliwack Highway District		
Okanagan Aggregates Ltd.	38,900.00	Awarded
D.M.J. Construction Ltd.	44,500.00	
Columbia Bitulithic Ltd.	48,700.00	
E & M Crushing Ltd.	48,900.00	
Cantex Engineering & Construction Co. Ltd.	55,000.00	
Miller Contracting Ltd.	64,500.00	
Contract 0002: Pierce Creek Pit, Chilliwack Highway District		
Gord Don Trucking Ltd.	131,500.00	Awarded
Cantex Engineering & Construction Co. Ltd.	136,300.00	
Columbia Bitulithic Ltd.	137,700.00	
Ptarmigan Gravel Ltd.	149,000.00	
Miller Contracting Ltd.	157,000.00	
Okanagan Aggregates Ltd.	185,600.00	
Contract 0003: Salmon River Pit, Courtenay Highway District		
Webb & Trace Ltd.	49,650.00	Awarded
Island Asphalt Ltd.	65,400.00	
Coopers & Lybrand Ltd.	66,750.00	
Columbia Bitulithic Ltd.	78,000.00	
Gord Don Trucking Ltd.	88,950.00	
Contract 0004: Dove Creek Pit, Courtenay Highway District		
Butler Brothers Supplies Ltd.	40,650.00	Awarded
Webb & Trace Ltd.	49,650.00	
Gord Don Trucking Ltd.	59,250.00	
Island Asphalt Ltd.	59,700.00	
Coopers & Lybrand Ltd.	61,050.00	
Canfarge Ltd.	74,400.00	
Columbia Bitulithic Ltd.	74,850.00	
Contract 0005: Godey Pit, Merritt Highway District		
Ptarmigan Gravel Ltd.	54,800.00	Awarded
D.M.J. Construction Ltd.	54,800.00	
E & M Crushing Ltd.	58,800.00	
Cantex Engineering & Construction Co. Ltd.	65,650.00	
Okanagan Aggregates Ltd.	70,300.00	
Jake Jay Holdings Ltd.	71,250.00	
Peters Bros. Paving (1981) Ltd.	82,000.00	
Enderby Gravel Products Ltd.	93,000.00	
Contract 0006: Supply and deliver t4o Bowen Island Maintenance Yard, North Vancouver Highway District		
Jack Cewe Ltd.	47,700.00	Awarded
Construction Aggregates Ltd.	48,200.00	
Contract 0007: Little Falls Pit, McBride Highway District		
W.E. Robertson Construction Co. Ltd.	121,960.00	Awarded
Okanagan Aggregates Ltd.	138,780.00	
767 Contractors Ltd.	151,000.00	
Ptarmigan Gravel Ltd.	205,000.00	
Contract 0008: Graham Pit, Williams Lake Highway District		
Okanagan Aggregates Ltd.	82,400.00	Awarded
W.E. Robertson Construction Co. Ltd.	88,100.00	
Ptarmigan Gravel Ltd.	102,350.00	
H. Williamson Blacktop & Landscaping Ltd.	103,500.00	
D.M.J. Construction Ltd.	105,200.00	
767 Contractors Ltd.	118,650.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
GRAVEL CRUSHING (continued)		
Contract 0009: Quesnel District Boundary Pit, Williams Lake Highway District		
D.M.J. Construction Ltd.	58,400.00	Awarded
Okanagan Aggregates Ltd.	63,600.00	
Ptarmigan Gravel Ltd.	63,600.00	
W.E. Robertson Construction Co. Ltd.	66,000.00	
H. Williamson Blacktop & Landscaping Ltd.	87,000.00	
767 Contractors Ltd.	92,600.00	
Weber Bros. Construction Ltd.	101,400.00	
Contract 0010: Moore Pit, Fort St. John Highway District		
Lorean Enterprises Inc.	97,600.00	Awarded
Columbia Bitulithic Ltd.	99,400.00	
Goodbrand Construction Ltd.	106,600.00	
SRM Ventures Ltd.	116,000.00	
D.M.J. Construction Ltd.	116,000.00	
Okanagan Aggregates Ltd.	139,400.00	
W.E. Robertson Construction Co. Ltd.	145,600.00	
767 Contractors Ltd.	148,200.00	
Contract 0011: Ten Mile Pit, Vanderhoof Highway District		
Venture Paving Ltd.	82,200.00	Awarded
Ptarmigan Gravel Ltd.	88,800.00	
Kode Contracting Ltd.	89,000.00	
Okanagan Aggregates Ltd.	99,200.00	
767 Contractors Ltd.	133,700.00	
L.B. Paving Ltd.	134,600.00	
D.M.J. Construction Ltd.	143,000.00	
W.E. Robertson Construction Co. Ltd.	149,400.00	
Contract 0012: Layton Pit, Vanderhoof Highway District		
D.M.J. Construction Ltd.	72,640.00	Awarded
L.B. Paving Ltd.	96,400.00	
Okanagan Aggregates Ltd.	101,920.00	Amended Total
W.E. Robertson Construction Co. Ltd.	104,320.00	Amended Total
Kode Contracting Ltd.	115,600.00	
767 Contractors Ltd.	116,000.00	
Contract 0013: Brown Pit, Dawson Creek Highway District		
D.M.J. Construction Ltd.	43,150.00	Awarded
Alco Services Ltd.	43,500.00	
W.E. Robertson Construction Co. Ltd.	46,150.00	
Okanagan Aggregates Ltd.	52,000.00	
Lorean Enterprises Ltd.	56,300.00	
Columbia Bitulithic Ltd.	64,975.00	
Contract 0014: Jackfish Lake South Pit, Dawson Creek Highway District		
Alco Services Ltd.	65,250.00	Awarded
Okanagan Aggregates Ltd.	77,700.00	
Columbia Bitulithic Ltd.	80,100.00	
D.M.J. Construction Ltd.	87,750.00	
W.E. Robertson Construction Co. Ltd.	95,100.00	
Goodbrand Construction Ltd.	96,750.00	
Lorean Enterprises Inc.	102,000.00	
Contract 0015: Deep Creek Pit, Mudhill Pit and Gnat Lake Summit Pit, Dease Lake Highway District		
Ptarmigan Gravel Ltd.	303,600.00	Awarded
Kentron Construction Ltd.	399,000.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
GRAVEL CRUSHING (continued)		
Contract 0016: Supply and deliver to Lasqueti Island Yard, Port Alberni Highway District		
Jack Cewe Ltd.	70,300.00	Awarded
Construction Aggregates Ltd.	71,500.00	
Coopers & Lybrand Ltd.	72,500.00	
Contract 0017: Timberland Pit, Nanaimo Highway District		
Hub City Paving Ltd.	84,730.00	Awarded
Coopers & Lybrand Ltd.	87,330.00	
Webb & Trace Ltd.	105,780.00	
Venture Paving Ltd.	141,500.00	
Contract 0018: Supply and deliver to Gabriola Island Highway Yard and Degnen Pit, Nanaimo Highway District		
Jack Cewe Ltd.	123,468.00	Awarded
Construction Aggregates Ltd.	124,718.00	
Hub City Paving Ltd.	130,900.00	
Contract 0019: Arrowsmith Pit, Port Alberni Highway District		
Hub City Paving Ltd.	91,500.00	Awarded
Gord Don Trucking Ltd.	93,075.00	
Upland Excavating (1971) Ltd.	97,200.00	
Venture Paving Ltd.	118,725.00	
Webb & Trace Ltd.	131,250.00	
Contract 0020: Kincade Pit, Port Alberni Highway District		
Coopers & Lybrand Ltd.	69,450.00	Awarded
Gord Don Trucking Ltd.	71,100.00	Amended Total
Webb & Trace Ltd.	71,550.00	
Venture Paving Ltd.	82,200.00	
Okanagan Aggregates Ltd.	120,900.00	
Contract 0021: Meade Creek Pit, Nanaimo Highway District		
Butler Brothers Supplies Ltd.	90,600.00	Awarded
Webb & Trace Ltd.	107,300.00	Amended Total
Venture Paving Ltd.	110,000.00	
Coopers & Lybrand Ltd.	122,600.00	
Gord Don Trucking Ltd.	160,000.00	
Okanagan Aggregates Ltd.	244,500.00	
Contract 0022: Shearing Pit, McLay Pit and Pamberton Pit, Nanaimo Highway District		
Coopers & Lybrand Ltd.	269,175.00	Awarded
Gord Don Trucking Ltd.	304,100.00	
Hub City Paving Ltd.	310,000.00	
Okanagan Aggregates Ltd.	326,600.00	Amended Total
Venture Paving Ltd.	350,350.00	
Webb & Trace Ltd.	390,250.00	
Contract 0023: Bainbridge Pit, Port Alberni Highway District		
Webb & Trace Ltd.	25,800.00	Awarded
Dolan's Concrete Ltd.	30,000.00	
Venture Paving Ltd.	35,200.00	
Coopers & Lybrand Ltd.	43,800.00	
Okanagan Aggregates Ltd.	108,800.00	
Contract 0024: Canoe Creek Pit, Port Alberni Highway District		
Webb & Trace Ltd.	47,000.00	Amended Total Awarded
Venture Paving Ltd.	78,600.00	
Gord Don Trucking Ltd.	79,700.00	
Okanagan Aggregates Ltd.	134,900.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
GRAVEL CRUSHING (continued)		
Contract 0025: Kirshfelt Pit, Vernon Highway District		
Okanagan Aggregates Ltd.	39,000.00	Awarded
D.M.J. Construction Ltd.	39,100.00	
Cantex Engineering & Construction Co. Ltd.	48,750.00	
Contract 0026: Morgan Pit, Adams River Pit and Rennie Pit, Salmon Arm Highway District		
Salmon Arm Ready-Mix Ltd.	63,920.00	Awarded
Ptarmigan Gravel Ltd.	93,920.00	
D.M.J. Construction Ltd.	97,680.00	
Okanagan Aggregates Ltd.	112,800.00	Amended Total
Cantex Engineering & Construction Co. Ltd.	128,560.00	Amended Total
Contract 0027: Church Pit and Summerland Pit, Kelowna Highway District		
D.M.J. Construction Ltd.	58,800.00	Awarded
Cantex Engineering & Construction Co. Ltd.	79,600.00	Amended Total
Inland Contracting & Sweeping Ltd.	92,400.00	
Okanagan Aggregates Ltd.	109,600.00	
Contract 0028: Woolsey Pit, Revelstoke Highway District		
Max Helmer Construction Ltd.	47,925.00	Awarded
Jake & Jay Holdings Ltd.	54,225.00	
Chinook Aggregates Ltd.	63,375.00	
Okanagan Aggregates Ltd.	73,350.00	
Cantex Engineering & Construction Co. Ltd.	150,000.00	
Contract 0029: Skimikin Pit, Salmon Arm Highway District		
D.M.J. Construction Ltd.	26,400.00	Awarded
Salmon Arm Ready-Mix Ltd.	29,400.00	
Okanagan Aggregates Ltd.	32,600.00	
Jake & Jay Holdings Ltd.	39,000.00	
Cantex Engineering & Construction Co. Ltd.	39,600.00	
Max Helmer Construction Ltd.	48,400.00	
Contract 0030: Padgett Pit, Gibsons Highway District		
Gord Don Trucking Ltd.	66,150.00	Awarded
Webb & Trace Ltd.	72,150.00	
Coast Paving (1984) Ltd.	87,650.00	
West Lake Sand & Gravel Ltd.	88,850.00	
Fielder Bros. Contracting Ltd.	112,500.00	
Contract 0031: Swan Pit, Smithers Highway District		
Columbia Bitulithic Ltd.	155,940.00	Awarded
L.B. Paving Ltd.	161,160.00	
Ptarmigan Gravel Ltd.	177,100.00	
Kildala Land Development Co. Ltd.	184,600.00	
W.E. Robertson Construction Co. Ltd.	221,840.00	
D.M.J. Construction Ltd.	238,800.00	
Rorison Enterprises Ltd.	244,600.00	
Okanagan Aggregates Ltd.	260,920.00	
Venture Paving Ltd.	268,840.00	
Pete's Development Ltd.	335,720.00	
Contract 0032: Piper Creek Pit and Miller Creek Pit, Queen Charlotte Islands, Prince Rupert Highway District		
16–25 Transport Ltd.	94,380.00	Awarded
Paul Burton & Son Contracting Ltd.	97,440.00	
L.B. Paving Ltd.	105,020.00	
Kildala Land Development Co. Ltd.	123,400.00	
Kentron Construction Ltd.	170,140.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
GRAVEL CRUSHING (continued)		
Contract 0033: Surprise Creek Pit, Prince Rupert Highway District		
Kildala Land Development Co. Ltd.	31,400.00	Awarded
16-25 Transport Ltd.	44,600.00	
Ptarmigan Gravel Ltd.	47,000.00	
L.B. Paving Ltd.	57,900.00	
D.M.J. Construction Ltd.	58,700.00	
Venture Paving Ltd.	62,400.00	
Contract 0034: Asphalt Coldmix, 100 Mile House Highway District		
Referenced only (informal)		
Contract 0035: North Naramata Pit, Penticton Highway District		
Inland Contracting & Sweeping Ltd.	40,150.00	Awarded
D.M.J. Construction Ltd.	44,060.00	
Cantex Engineering & Construction Co. Ltd.	53,600.00	
H. Williamson Blacktop & Landscaping Ltd.	61,500.00	
Okanagan Aggregates Ltd.	99,250.00	
Contract 0036: Reservoir Pit, New Denver Highway District		
Okanagan Aggregates Ltd.	59,610.00	Awarded
Jake & Jay Holdings Ltd.	75,890.00	
H. Williamson Blacktop & Landscaping Ltd.	92,500.00	
767 Contractors Ltd.	106,800.00	
Contract 0037: Golden Hill Pit, Golden Highway District		
Chinook Aggregates Ltd.	46,890.00	Awarded
Jake & Jay Holdings Ltd.	53,720.00	
D.M.J. Construction Ltd.	58,860.00	
Sholinder & MacKay Sand & Gravel Ltd.	58,900.00	
Okanagan Aggregates Ltd.	66,600.00	
Louis Salvador & Son Ltd.	77,850.00	
E.N. Elkington Ltd.	96,620.00	
Contract 0038: Leptizke, Colonel & Yahk Pits, Cranbrook and Creston Highway Districts		
Sholinder & MacKay Sand & Gravel Ltd.	159,020.00	Awarded
Louis Salvador & Son Ltd.	159,690.00	
D.M.J. Construction Ltd.	167,860.00	
767 Contractors Ltd.	195,205.00	
Okanagan Aggregates Ltd.	230,090.00	
H. Williamson Blacktop & Landscaping Ltd.	282,900.00	
Cantex Engineering & Construction Co. Ltd.	342,000.00	
Contract 0039: Nancy Greene Pit, Rossland Highway District and Great Northern Pit, Grand Forks Highway District		
D.M.J. Construction Ltd.	49,200.00	Awarded
H. Williamson Blacktop & Landscaping Ltd.	52,350.00	
Louis Salvador & Son Ltd.	52,425.00	Amended Total
Cantex Engineering & Construction Co. Ltd.	62,625.00	
Okanagan Aggregates Ltd.	66,000.00	
Inland Contracting & Sweeping Ltd.	67,500.00	
Venture Paving Ltd.	80,850.00	
Contract 0040: Boyes Creek Pit, Lillooet Highway District		
Gord Don Trucking Ltd.	40,500.00	Awarded
D.M.J. Construction Ltd.	49,200.00	
E & M Crushing Ltd.	49,350.00	
Chinook Aggregates Ltd.	55,950.00	
Island Asphalt Ltd.	81,900.00	
Okanagan Aggregates Ltd.	87,000.00	
Columbia Bitulithic Ltd.	99,750.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
GRAVEL CRUSHING (continued)		
Contract 0041: Kimea Creek Pit, Fort St. John Highway District		
D.G. Smith Engineering Ltd.	1,130,500.00	Not Awarded
E. Lobe Contracting Ltd.	1,190,000.00	
Okanagan Aggregates Ltd.	1,534,750.00	
Columbia Bitulithic Ltd.	1,748,250.00	
Contract 0042: Bethlehem Pit, Merritt Highway District		
Chinook Aggregates Ltd.	24,300.00	Awarded
Okanagan Aggregates Ltd.	28,000.00	
E & M Crushing Ltd.	28,600.00	
D.M.J. Construction Ltd.	34,600.00	
Dawson Construction Co. Ltd.	43,100.00	
Columbia Bitulithic Ltd.	63,000.00	
Inland Contracting & Sweeping Ltd.	110,000.00	Amended Total
Contract 0043: Chenault Pit, Lillooet Highway District		
Okanagan Aggregates Ltd.	57,900.00	Awarded
H. Williamson Blacktop & Landscaping Ltd.	60,000.00	
E & M Crushing Ltd.	63,900.00	
Salmon Arm Ready-Mix Ltd.	71,600.00	
Columbia Bitulithic Ltd.	81,400.00	
D.M.J. Construction Ltd.	85,000.00	
Goodbrand Construction Ltd.	88,000.00	
MISCELLANEOUS		
Project C-1725 Contract No. 2: Landscape Development, Fern Street to Mount Seymour Parkway, North Vancouver		
Haw Can Construction Ltd.	122,021.44	Amended Total Awarded
Kany Construction & Engineering Ltd.	140,451.00	
E.A. Farquhar Landscape Construction Ltd.	141,650.00	Amended Total
Envirotectural Services Ltd.	148,000.00	
H.L. Landscape Services Ltd.	148,402.00	
Kidco Holdings Ltd.	148,768.80	Amended Total
Jeckway Landscaping (83) Ltd.	170,720.00	Amended Total
Ekset Contracting Ltd.	176,672.00	Amended Total
Ocean Point Contractors Ltd.	183,263.80	
Maplewood Landscaping Ltd.	184,084.00	Amended Total
Modern Grounds Maintenance Ltd.	191,272.30	
Johnsen Landscaping Ltd.	204,923.80	Amended Total
T. Moscone & Brothers Landscaping Ltd.	217,564.20	
Project C-2821: Construction of Weigh Scale Station at Vanderhoof		
Aeon Construction Ltd.	158,000.00	Amended Total Awarded
Wayne Watson Construction Ltd.	174,144.00	Amended Total
Viking Construction Ltd.	177,000.00	Amended Total
Ardy Construction Ltd.	191,200.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based on Estimated Quantities $	Remarks
MISCELLANEOUS (continued)		
Project D-2654: Landscape Development of MacKenzie Avenue Extension, Victoria		
Kimoff Landscaping Ltd.	273,907.00	Amended Total Awarded
Courtenay Landscapes Plus Ltd.	284,032.75	Amended Total
Holland Landscapers Ltd.	293,458.94	
Joe Brum Landscaping Ltd.	333,100.50	
Dineen Landscaping & Nurseries Ltd.	342,205.38	
Chris Design Landscape Ltd.	394,015.50	
Project D-2779: Landscape Development Kingston Avenue to North Thompson River Bridge, Kamloops		
M.C. Tower Enterprises Ltd.	108,500.00	Awarded
West-Wind Nursery Ltd.	117,000.00	
Kimoff Landscaping Ltd.	162,795.50	
Holland Landscapers Ltd.	182,102.46	Amended Total
B.A. Blacktop Kamloops	199,028.60	
Project No. D-2893 Contract No. 1: Cast-in-Place Concrete for "Expo 86" Floral Display, Highway 99, White Rock		
Omar Construction Ltd.	9,336.00	Awarded
McDern Grounds Maintenance Ltd.	10,456.00	
Timm Construction Co. Ltd.	11,320.00	
S. Henningson Construction Ltd.	12,700.00	
Tehcon Construction Services Ltd.	13,436.00	Amended Total
Van Der Zalm Construction Limited	13,850.00	
Doyle Construction Co. Ltd.	13,953.00	
Bunio Developments Ltd.	16,900.00	
LeTroy-Winder Construction Ltd.	21,000.00	
Acorn Contracting Ltd.	25,635.00	
S & B Construction Ltd.	31,640.00	
Project No. D-2893 Contract No. 2: Cast-in-Place Concrete for "Expo 86" Floral Display at Various Locations, Lower Mainland		
Omar Construction Ltd.	39,427.00	Awarded
Timm Construction Co. Ltd.	44,395.00	
Spence Bros. Construction Ltd.	49,815.00	
Modern Grounds Maintenance Ltd.	54,500.00	
Tehcon Construction Services Ltd.	57,034.00	
Jack Cewe Ltd.	77,975.00	
Granville Contracting Ltd.	148,900.00	
Project E-2439: Reversible Lane Control, Okanagan Lake Bridge, Okanagan Highway 97		
Betts Electric Ltd.	210,000.00	Amended Total Awarded
Mario DiBella	223,745.00	Amended Total
Scott Electric Ltd.	253,729.00	
Interior Industrial Electric Ltd.	307,000.00	
Project H-2600: Annual Refit, M.V. Kulleet		
Vancouver Shipyards Co. Ltd.	65,280.00	Awarded
Burrard Yarrows Corp.	70,138.00	
McKenzie Barge & Marine Ways Ltd.	76,289.00	
Point Ellis Shipyards Ltd.	77,344.50	
Nanaimo Shipyard Ltd.		Incomplete

STATEMENT AS TO MAJOR HIGHWAY WORK (DAY LABOUR ONLY) COMPLETED OR IN PROGRESS DURING FISCAL YEAR 1984/85

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1985
REGION 1 North Vancouver	B-2714	Trans Canada Highway	Mosquito Creek Bridge		Galvanize handrail		100%
	C-2698	Garibaldi Highway 99	Newman Creek		Debris catchment basin		100%
	C-2704	Garibaldi Highway 99	Horseshoe Bay to Lions Bay		Hydro and telephone pole relocations		100%
	C-2848	Garibaldi Highway 99	Alberta Creek		Detour bridge approaches		100%
	C-3205	Garibaldi Highway 99	Various locations		Patch paving		100%
	N-0368	Garibaldi Highway 99	Horseshoe Bay to Britannia		Guardrail replacement		100%
	W-2238A	Trans Canada Highway	Pemberton Ave. Pedestrian Overpass		Chain link fencing		100%
	W-2238B	Rayonier Pit Road	Rayonier Pit compound		Chain link fencing		100%
	W-2238C		Alberta Creek Weather Station		Chain link fencing		100%
	W-2238D	Trans Canada Highway	Fern Street to Lonsdale Avenue		Chain link fencing		100%
Gibsons	C-0118	Various Roads	Minor betterments		Reconstruction, ditching, gravelling, paving and bridge reconstruction	May/83	100%
	C-2095	Highway 101 and Lower Road Intersection	300 m either side of intersection	0.6	Reconstruction, widening, paving	Oct/83	100%
	C-2096	Malaspina Road	km 0.5 to km 3.7	3.7	Paving	July/83	100%
	C-2097	Henderson Road	Total length	0.6	Reconstruction	May/83	100%
	C-2098	Port Mellon Highway	Various sections, km 0.8 to km 6.0	1.0	Widen shoulders	Dec/83	100%
	C-2099	Craig Road	Total length	1.0	Reconstruction	Aug/83	100%
	C-2101	Gillies Bay Subdivision	Various roads - total length	1.7	Paving	May/83	100%
	C-2102	Centennial Drive	Total length	0.6	Paving	June/83	100%
	C-2474	Sunshine Coast Highway	Various sections	3.0	Major patching	Mar/83	100%
	C-2475	Powell River Area	Various sections on several roads	10.0	Ditching, shouldering, gravelling	Feb/84	100%
	C-2476	Gibsons Area	Various sections on several roads	20.0	Ditching, shouldering, gravelling	Feb/84	100%
	C-2477	Madeira Park Area	Various sections on several roads	10.0	Ditching, shouldering, gravelling	Feb/84	100%
	C-2478	Gibsons Area	Various roads	10.0	Brushing	Mar/84	100%
	C-2479	Powell River Area	Various roads	20.0	Brushing	Feb/84	100%
	C-2480	Sunshine Coast Highway	Madeira Park area	4.0	Shoulder buildup	Feb/84	100%
	N-0369	Sunshine Coast Highway	Madeira Park area	0.6	Install guardrail	Aug/83	100%
New Westminster		King George Highway, Route 99A	At 152 Street intersection		Construction of a new pedestrian overpass	Oct/84	100%
Chilliwack	C-2705	Coquihalla Highway	Access road improvements	18.0	Reconstruction, widening and grade revision	Apr/84	100%

STATEMENT AS TO MAJOR HIGHWAY WORK (DAY LABOUR ONLY) COMPLETED OR IN PROGRESS DURING FISCAL YEAR 1984/85 (continued)

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1985
REGION 2 Kamloops	C-2822	Princeton-Kamloops Highway 5	Segment 1720 - km 57.1 to km 89.1	32.0	Reconstruction, widening prior to paving	Sept/84	100%
	C-2905	Princeton-Kamloops Highway 5	Segment 1720 - km 89.1 to km 92.0	2.9	Reconstruction, widening for four laning	Oct/84	20%
	N-0373	Various Roads	Various roads	825 m	Guardrail installation of 339 pieces	Aug/84	
	W-0344	Various Schedule 2 Highways	Various Schedule 2 Highways within the Kamloops District	39.45	Repaired and replaced 39,450 m of fence and installed 4 cattleguards	May/84	
Salmon Arm	N-0374	Highway 97, Kamloops-Vernon	Various sections from km 8.03 to km 58.97		Concrete guardrail placement, 488 pieces of 690 mm guardrail were placed on widened shoulders in accordance with warrants	Sept/84	100%
	W-0345	Highway 97, Kamloops-Vernon Trans Canada Highway	Various sections Various sections	9,642 m 8,980 m	Schedule 2 fencing Replacement and new installation of Type C standard barbed wire fencing	July/84	100%
Vernon		none for 1984/85.					
Penticton	C-2892	Oliver - Camp McKinney	km 11.2 to km 27.2 plus 2.5 km new construction	16.5	Widen, realign and construct 2.5 km bypass	1984	75%
Merritt	B-2294	Merritt-Spences Bridge 8	Potatosillihee Bridge approach	100 m	Reconstruction of approach to new bridge	Oct/84	100%
	C-0476	Meadow Creek Road 178	Fale Lake junction to Walloper Pit	4.0	Reconstruction, realignment	July/84	100%
	C-2780	Clapperton Tote Road	Mill Creek Road to Clapperton Creek	1.0	New construction	Oct/84	100%
	C-2823	Merritt-Kamloops Highway 5 N.	Highway 5 north at Douglas Lake junction	350 m	Reconstruction, alignment and grade revisions	Nov/84	100%
	C-2824	Merritt-Kamloops Highway 5 N.	Nicola Lake rock bluffs	1350 m	Reconstruction for new alignment	Nov/84	100%
	C-2908	Meadow Creek Road 178	Various sections		Restabilize slopes	Oct/84	100%
	C-2909	Merritt-Spences Bridge 8	3 Mile Bridge to Rattlesnake Bridge	700 m	Reconstruction and alignment for bridge approaches	Oct/84	100%
	C-2910	Highland Valley Road 173	Various sections	3.1	Reconstruction to eliminate frost heaving	Mar/85	100%
	C-2930	Merritt-Spences Bridge 8	Curnow Bridge approach	100 m	Reconstruction and alignment for bridge approach	Nov/84	100%
	N-0378	Merritt-Kamloops Highway 5 N.	Various sections, Nicola Lake	925 m	Place guardrail along lake	Jan/85	100%
	W-0349	5 North, Road 178, Road 173	Various sections	50,351 m	Schedule 2 fencing	Aug/84	100%

Merritt (cont'd)	K-2501	Merritt-Spences Bridge 8	Rock blasting	0.5	Reconstruction, alignment and grade revision	Apr/84	100%
	K-2503	Merritt-Kamloops Highway 5 N.	Riprap various sections along Nicola Lake		Shoulder widening	Nov/84	100%
	K-2502	Trans Canada Highway	Various sections	935 m	Guardrail installation	May/84	100%
		Highway 8	East Road to Dot Ranch and 2.5 km westerly	2.5	Regravel shoulders		50%
		Kane Valley Road	From Moyes Subdivision to Davies Lake Road	6.0	Regravel		100%
		Douglas Lake Road	North of Indian Reserve to first cattleguard		Reconstruct new		100%
		Highway 8	20 miles west of Merritt		Rock blasting, gravel and pave		100%
	C-2910	Highland Valley Road 173	km 12.0 to km 18.0	3.1	Reconstruction	Feb/85	100%
		Meadow Creek Road 178	km 20.0 to km 21.6	1.6	Sealcoating	June/84	100%
		Meadow Creek Road	km 0.0 to km 16.0	16.0	Ditching	Apr/84	100%
	K-2502	Trans Canada Highway	km 23.0, Sackum Hill	330 m	Install 27" no post, 135 pieces	June/84	100%
	K-2502	Trans Canada Highway	km 27.5 to km 28.0	0.5	Install 27" no post, 218 pieces	June/84	100%
		Coalmont Road 14	1 km east of Coalmont	1.0	Reconstruction, sloping and realignment	Mar/84	50%
		Coalmont Road 14	3 km east of Coalmont	1.0	Fill at Money's Corner, realignment	Mar/84	50%
		Coalmont Street 16	Coalmont Town	0.5	Regravel road, 3/4 crushed	Sept/84	90%
		Roads 9, 14, 79 and 27	Dust control	5.0	M.R. applied	June/84	90%
		Coalmont Road 14	24 km north of Tulameen	1.0	Road base repair and widening	June/84	75%
Lillooet	C-2911	Highland Valley Road 173	Bernard Creek - Summitt	5.0	Reconstruction, realignment	Nov/84	70%
			Barnes Lake Corner	2.0		Mar/85	50%
	S-2861	Cache Creek Airport (for paving branch)	Runway, taxiway and apron	2.0	Reconstruction of runway, construction of balance	Oct/84	100%
100 Mile House		none for 1984/85.					
Kelowna		none for 1984/85.					
REGION 3 Nelson		none for 1984/85.					
Rossland	B-2244	Hudu Creek Road 104	Fruitvale area	6 m	Replaced part of bridge with arch plate culvert	Aug/84	100%

STATEMENT AS TO MAJOR HIGHWAY WORK (DAY LABOUR ONLY) COMPLETED OR IN PROGRESS DURING FISCAL YEAR 1984/85 (continued)

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1985
Grand Forks	C-2894	Camp McKinney Baldy Ski Hill	New access road from Camp McKinney Oliver Road to Baldy Ski Hill new location 6.4 km, Ministry constructed 3.2 km, Baldy Ski Developers constructed 3.2 km	3.2 Hwys.	Totally new construction over new route to join old Ski Hill route from the Rock Creek Canyon Bridge	June/84	95%
	N-0383	Rock Creek - Kelowna Hwy. 33	Various locations	580 m	Shoulder preparation and installation of 690 mm guardrail	Mar/85	100%
	W-0352	Crowsnest Highway 3, Rock Creek - Kelowna Hwy. 33	Various locations	27.3	Construct, reconstruct or repair fence at 18 locations		100%
New Denver	N-0384	Throughout District			Guardrail installation	Nov/84	100%
Cranbrook		Crowsnest Highway 3 and Kimberley Highway 95A Junction	Cranbrook North Interchange	0.8	Reconstruction, widening, realignment and grade revision completed to pitrun gravel	Mar/85	100%
Fernie		none for 1984/85.					
Golden	K-3704A	Blaeberry River Road 372	km 0.0 to km 0.2	0.2	Reconstruction, realignment and grade revision	Apr/85	50%
	K-3704A	T.C.H. West	km 25.1 to km 25.4	0.4	Reconstruction and widening	Apr/85	100%
Revelstoke	B-2738	Greely Road 611	Illecillewaet Bridge	60 m	Reconstruct south abutment and approach span	Feb/85	20%
	385	T.C.H. and Nakusp-Mica Hwy. 23	Albert Canyon, Griffin Lake, Galena Bay		Install 69 cm Guardrail	Apr/84	100%
Creston	B-2739	Crawford Creek Bridge	Bridge repair	30 m	Remedial repairs to caps, replace cross ties, new hand rail and wheel guards	July/84	100%
	N-0389	Highway 3A & Creston Lister	Install 27" guardrail 90 + warrants	226 pc.	Guardrail	Oct/84	100%
	W-0794	Highway 3, Robson, Highway 21	Right of way fencing	1,320 lin.m	Schedule 2 and right-of-way comm., right of way fencing	Aug/84	100%

REGION 4 Prince George	C-3008	John Hart-Peace River Hwy. 97	Davie Lake - Kerry Lake	17.0	Reconstruction, right-of-way clearing		25%
	N-0429	Trunk Highways	Yellowhead and John Hart Highways	0.15	Install guardrail		85%
	W-0356	Schedule 2 Highways	Cariboo and John Hart Highways	5.6	Fencing		100%
Quesnel	C-2857	Cariboo Highway 97 South Frontage Road	Dragon Lake Hill	0.6	New construction and paving	Aug/84	100%
	C-0203	Cariboo Highway 97 South	Soda Creek McAlister Road 248	0.2	Base widening for left turn slot	Aug/84	100%
	C-0204	Maple Drive 223	Red Bluff Elementary-Fern Road	1.2	Shoulders widened and paved	July/84	100%
	N-0430	Cariboo Highways 97 N. & S.	Various locations	0.85	No post guardrail installation	Apr/84	100%
	W-0357G	Cariboo Highway 97 North	Ahbau Creek to Wade Road	9.1	Schedule 2 fencing	Aug/84	100%
	W-0357I	Cariboo Highway 97 South	McLeese Lake and Quesnel South foreman areas	9.7	Schedule 2 fencing	Aug/84	100%
	W-0357J	Quesnel-Blackwater Road 58	Goose Lake area	8.0	Right-of-way fencing	Aug/84	100%
Dawson Creek		Chilton Subdivision Road	Petrick's Frontage	0.2	Regravel, pit run		100%
		Ski Hill Road	Loiselles and beyond for 3 km	3.0	Regravel, pit run		100%
		Old Hart Highway	East of McKellars	4.1	Regravel, pit run		100%
		Tremblay Road	Patches on hill	0.2	Regravel, pit run		100%
		Briar Ridge Road	Junction Highway 2 and Briar Ridge Road (4 legs)	1.7	Regravel, pit run		100%
		Tate Creek Road	East of Schoenstein's to Landsfried Road	1.2	Regravel, pit run		100%
		Landsfried Road	Spot gravelled full length	0.9	Regravel, pit run		100%
		Gold Course Road	From Hwy. 97 North to 97 South	1.0	Sealcoat		100%
		Road 15	From Rolla Road to Charlie Wheat Road	1.6	Regravel, crush		100%
		Road 15	Gun Range	0.4	Regravel, crush		100%
Fort St. John	C-1985	Liard Highway 77	Fort Nelson River Bridge approaches	0.5	Completion of 1983/84 project		100%
	N-0432	Various district roads	District Roads 101, 103, 108, Highway 29, Bridges Road 117		Slide areas - remove, replace and widen shoulders. Road 117 widen approaches and install guardrail		100%
	W-0359	Highway 97	km 98.0 to km 118.0	20.0	Prepare right-of-way and install Schedule 2 fencing		50%
Vanderhoof	C-2493	Vanderhoof - Stuart Lake Arterial (Fort St. James)	km 0.41 to km 1.56	1.15	Asphalt surfacing	Sept/84	100%
	N-0433	Yellowhead Highway	(Purchase Guardrail only)		Guardrail installation		80%
	W-0360	Yellowhead Highway	Various Locations	7.29	Schedule 2 fencing	Aug/84	100%
McBride	C-2661	Yellowhead Highway 16	Horsey Creek, 40 km east of	1,323 m	Drainage improvement. Installation of perforated pipe and landscaping	May/84	100%

STATEMENT AS TO MAJOR HIGHWAY WORK (DAY LABOUR ONLY) COMPLETED OR IN PROGRESS DURING FISCAL YEAR 1984/85 (continued)

Region and Hwy. District	Project Number (if any)	Name of Road	Location of Work	Distance of Work (km)	Description of Work	Date Started	Complete at March 31, 1985
McBride (cont'd)	C-2919	Yellowhead Highway 16	5 km north of Avola		Removal of rock slide and machine patching surface	Mar/84	100%
	N-0434	Yellowhead Highway 16	Various Locations	100 pc.	Guardrail installation	July/84	100%
	W-0361	Yellowhead Highway 5 and 16		10.4	Schedule 2 fencing		100%
Williams Lake	C-2836	Stanchfield Road 888	Horsefly Road to D.L. 6357	1.8	Reconstruction, Kallman Ranch Bypass	Aug/84	100%
REGION 5 Prince Rupert	B-1436	Cassiar Highway 37	Ritchie Creek Bridge		Replacement of old wooden bridge with concrete bridge	Aug/84	80%
	B-2750	Cassiar Highway 37	Hanna Creek Bridge		Replacement of old wooden bridge with concrete structure	Aug/84	85%
	K-5116	Cassiar Highway 37	Taft Creek Bridge		Replacement of old wooden bridge with concrete structure	Aug/84	87%
	K-5118	Cassiar Highway 37	Deltaic Creek Bridge		Replacement of old wooden bridge with concrete structure	Aug/84	74%
Terrace		Kalum Lake Road 3	km 35.35, Wesach Creek		Remove log stringer bridge and install Bailey complete with paved approaches	Nov/84	100%
	B-2754	Greenville Road	Diskangieq and Greenville Creeks		Construct two Bailey bridges	July/84	100%
	B-1102	Greenville Road	km 4.0 to km 13.1 (thru I.R. #1 Lachkaltsap)	9.1	Construction of new road	July/84	100%
	C-1946	Kalum Lake Road 3	km 24.7 to km 30.76 (Goat Creek to Maroon Creek)	6.0	Reconstruction, widening, realignment and grade revisions	June/84	100%
	N-0391	Kalum Lake Road 3	Various locations, km 15.0 to km 48.89	23.89	Installation of 2000 pieces (6,096 m) of 460 mm guardrail as warranted	Aug/84	100%
		Kalum Lake Road 3	Maroon Creek (km 30.76)	1.0	Removal of slide material and installation of sub-base drains	Oct/84	50%
		Old Lakelse Road	km 3.3 to km 12.0 (Thornhill Creek to Williams Creek)	8.7	Apply base gravel and ditch	Mar/85	100%
Dease Lake		none for 1984/85.					

Smithers	B-2753	Babine Lake Road	At Fulton River Bridge		Install concrete deck overlay	Sept/84	96%
Burns Lake	N-0393	Yellowhead Highway 16	Seg. 1550 - km 31.27 to km 31.39	120 m	Placing guardrail	May/84	100%
	N-0393	North Francois Highway 35	Seg. 1548 - km 8.17 to km 8.31	135 m	Placing guardrail	May/84	100%
	N-0393	Buck Flats	Hill - north of Buck Bridge 1	92 m	Placing guardrail	June/84	100%
	W-0364	Yellowhead Highway 16	Various Locations in District	60.0	Repairing Schedule II Fencing	Sept/84	100%
REGION 6 Nanaimo	C-2144	Island Highway 19	Northfield Road	0.5	Reconstruct and pave	Apr/84	100%
Saanich	C-2159	West Coast Road	Kirby Bridge approaches	0.5	Reconstruction of bridge approaches for new bridge	May/84	100%
	C-2699	Kelly Road	Pickford Road to Jacklin Road	0.7	New construction completes Kelly Road extension to Jacklin Road	Apr/84	100%
	C-3028	Trans Canada Highway	Trans Canada Highway at Wilkinson Road	0.2	Reconstruction, realignment of the highway and closure of Wilkinson Road intersection	Mar/85	100%
	N-0396	West Coast Road	At Kirby Creek	0.5	Guardrail installation	Aug/84	100%
Port Alberni	C-2856	Bamfield Road 717	Port Alberni	4.0	Gravel	June/84	100%
	C-0542	Beaver Creek Road 1	Port Alberni	1.4	Asphalt overlay	Mar/85	90%
	C-0542	Somers Road 55	Port Alberni	0.4	Asphalt overlay	Mar/85	100%
	C-0542	Somers Road 55	Port Alberni	1.3	Prepare and pave	Mar/85	100%
		Stewart Road	Nanoose Bay	1.4	Prepare and pave	Mar/85	100%
		Bellevue Road	Coombs	0.8	Prepare and pave	Mar/85	100%
		Bennett Road	French Creek	0.6	Prepare and pave	Mar/85	100%
		Plummer Road	Parksville	1.3	Prepare and pave	Mar/85	100%
Courtenay		none for 1984/85.					

HIGHWAYS STATISTICS

STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS AND CLASSIFIED HIGHWAYS

By Class
(Classified in Bold Type)

METRIC MEASURES

Region & Highway District	Provincial and Classified	Ministry of Transportation & Highways							Ministry of Energy, Mines and Natural Resources	
		Trunk Highways	Main Highways	Other Roads		Total Distance Open	Distance Not Open	Trails	Roads	Trails
				Collector	Minor					
REGION 1										
11. North Vancouver.	Provincial	8.22	75.10	98.84	107.57	289.73	15.52	.....	.....	.....
	Classified	**48.77**	**80.33**	**13.91**	**4.27**	**147.28**	.....	.....	.....	.....
12. Gibsons.........	Provincial	.....	121.48	127.43	309.10	558.01	172.63	26.79	.....	.....
	Classified	.....	**18.95**	**.24**	**6.40**	**25.59**	.....	.....	.....	.....
14. New Westminster.	Provincial	1.23	4.73	32.23	36.62	74.81	3.46	.....	.....	.....
	Classified	**276.92**	**155.83**	**98.25**	**5.69**	**536.69**	**24.78**	.....	.....	.....
15. Chilliwack......	Provincial	269.49	6.68	149.07	433.63	858.87	47.83	74.82	20.11	139.02
	Classified	**126.07**	**59.59**	**63.87**	**1.53**	**251.06**	.....	.....	.....	.....
Regional Totals..	Provincial	278.94	207.99	407.57	886.92	1781.42	239.44	101.61	20.11	139.02
	Classified	**451.76**	**314.70**	**176.27**	**17.89**	**960.62**	**24.78**	.....	.....	.....
REGION 2										
21. Kamloops.......	Provincial	310.70	121.30	336.20	1205.20	1973.40	74.70	204.40	.....	.....
	Classified	**50.00**	**6.70**	.....	.....	**56.70**	.....	.....	.....	.....
22. Salmon Arm.....	Provincial	194.15	.....	454.06	583.40	1231.61	126.75	.....	22.54	76.97
	Classified	**23.39**	**5.64**	**21.88**	.....	**50.91**	.....	.....	.....	.....
23. Vernon.........	Provincial	128.59	8.85	409.54	471.65	1018.63	81.80	33.60	57.92	67.57
	Classified	**59.23**	.....	**25.76**	.....	**84.99**	.....	.....	.....	.....
24. Penticton......	Provincial	297.45	.....	394.37	710.93	1402.75	55.31	111.98	29.36	149.06
	Classified	**37.32**	.....	**18.20**	.....	**55.52**	.....	.....	.....	.....
25. Merritt........	Provincial	157.72	86.29	407.50	560.00	1211.51	14.76	.....	12.39	8.05
	Classified	**5.47**	**10.36**	.....	.....	**15.83**	.....	.....	.....	.....
26. Lillooet.......	Provincial	74.00	158.20	154.07	634.10	1020.37	58.20	.....	.....	.....
	Classified	**7.60**	**9.40**	.....	.....	**17.00**	.....	.....	.....	.....
27. 100 Mile House.	Provincial	140.87	62.30	562.20	1245.67	2011.04	141.05	153.92	9.60	117.12
	Classified	**4.43**	.....	.....	**2.62**	**7.05**	.....	.....	.....	.....
29. Kelowna........	Provincial	45.43	30.21	237.26	686.23	999.13	253.56	.....	.....	.....
	Classified	**43.96**	**11.86**	**14.66**	.....	**70.48**	.....	.....	.....	.....
Regional Totals..	Provincial	1348.91	467.15	2955.20	6097.18	10868.44	806.13	503.90	131.81	418.77
	Classified	**231.40**	**43.96**	**80.50**	**2.62**	**358.48**	.....	.....	.....	.....
REGION 3										
31. Nelson.........	Provincial	162.90	41.20	155.89	364.11	724.10	28.11	.....	144.92	20.11
	Classified	**11.72**	.....	**.58**	.....	**12.30**	.....	.....	.....	.....
32. Rossland.......	Provincial	155.62	15.83	58.20	294.64	524.29	90.30	.....	.....	.....
	Classified	**35.25**	**3.91**	**1.29**	.....	**40.45**	**2.02**	.....	.....	.....
33. Grand Forks....	Provincial	133.73	96.01	167.92	642.60	1040.26	49.69	.....	19.55	.....
	Classified	**15.39**	.....	**1.98**	.....	**17.37**	.....	.....	.....	.....
34. New Denver.....	Provincial	162.60	148.40	73.30	318.12	702.42	57.54	.....	279.50	67.20
	Classified	**4.30**	**7.10**	.....	.....	**11.40**	.....	.....	.....	.....
35. Cranbrook......	Provincial	217.00	.....	218.40	572.40	1007.80	66.70	.....	19.30	.....
	Classified	**15.60**	.....	**4.00**	.....	**19.60**	.....	.....	.....	.....
36. Fernie.........	Provincial	114.47	21.45	96.02	399.24	631.18	313.95	.....	.....	.....
	Classified	**32.48**	**7.38**	**19.77**	.....	**59.63**	.....	.....	.....	.....
37. Golden.........	Provincial	260.40	.....	9.70	511.70	781.80	86.30	.....	274.10	74.00
	Classified	**9.00**	.....	**4.40**	.....	**13.40**	**2.50**	.....	.....	.....
38. Revelstoke.....	Provincial	71.32	110.76	15.24	255.60	452.92	31.49	.80	15.93	83.85
	Classified	**8.99**	**1.39**	**7.22**	**6.81**	**24.41**	.....	.....	.....	.....
39. Creston........	Provincial	180.17	13.31	57.12	298.40	549.00	37.86	.....	.....	.....
	Classified	**5.36**	.....	**2.03**	.....	**7.39**	.....	.....	.....	.....
Regional Totals..	Provincial	1458.21	446.96	851.79	3656.81	6413.77	761.94	.80	753.30	245.16
	Classified	**138.09**	**19.78**	**41.27**	**6.81**	**205.95**	**4.52**	.....	.....	.....

STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS AND CLASSIFIED HIGHWAYS

By Class
(Classified in Bold Type)

METRIC MEASURES

Region & Highway District	Provincial and Classified	Ministry of Transportation & Highways							Ministry of Energy, Mines and Natural Resources	
		Trunk Highways	Main Highways	Other Roads		Total Distance Open	Distance Not Open	Trails	Roads	Trails
				Collector	Minor					
REGION 4										
41. Prince George...	Provincial	417.73	45.58	153.21	882.52	1499.04	307.33	.....	.....	.....
	Classified	**58.68**	**20.44**	**2.16**	.....	**81.28**	.....	.....	.....	.....
42. Quesnel.........	Provincial	174.30	79.80	451.00	1554.54	2259.64	80.09	93.86	288.11	535.90
	Classified	**11.12**	**.15**	**6.75**	**.38**	**18.40**	.....	.....	.....	.....
43. Dawson Creek....	Provincial	341.16	51.20	1705.70	502.15	2600.21	2036.77	.....	.....	.....
	Classified	**36.99**	**68.00**	**1.72**	.....	**106.71**	.....	.....	.....	.....
44. Fort St. John...	Provincial	69.60	128.62	1518.60	792.93	2509.75	1344.32	.....	.....	.....
	Classified	**7.58**	**22.63**	**33.97**	**12.70**	**76.88**	.....	.....	.....	.....
45. Vanderhoof......	Provincial	116.37	53.50	534.69	714.83	1419.39	350.14	297.85	416.68	233.45
	Classified	**27.70**	**10.75**	**7.60**	.....	**46.05**	.....	.....	.....	.....
46. McBride.........	Provincial	.....	355.93	.....	380.66	736.59	35.59	.....	.....	.....
	Classified	.....	**1.19**	**1.26**	.....	**2.45**	.....	.....	.....	.....
47. Williams Lake...	Provincial	61.86	455.99	193.23	2330.54	3041.62	110.23	596.89	90.67	268.59
	Classified	**6.09**	**3.12**	**7.40**	.....	**16.61**	.....	.....	.....	.....
Regional Totals...	Provincial	1181.02	1170.62	4556.43	7158.17	14066.24	4264.47	988.60	795.46	1037.94
	Classified	**148.16**	**126.28**	**60.86**	**13.08**	**348.38**	.....	.....	.....	.....
REGION 5										
51. Prince Rupert...	Provincial	15.81	298.71	20.76	105.41	440.69	66.13	54.48	53.27	.....
	Classified	**42.05**	**52.96**	**4.20**	.....	**99.21**	.....	.....	.....	.....
52. Terrace.........	Provincial	136.54	51.11	100.06	163.45	451.16	141.31	133.31	.....	57.49
	Classified	**5.95**	**6.60**	**6.30**	.....	**18.85**	.....	.....	.....	.....
53. Dease Lake......	Provincial	.....	564.36	45.96	260.87	871.19	.50	1281.90	.....	.....
	Classified	.....	.....	.....	.....	.....	.....	.....	.....	.....
54. Smithers........	Provincial	249.77	.....	173.36	623.38	1046.51	141.16	611.42	28.48	435.23
	Classified	**13.73**	.....	**1.02**	**8.05**	**22.80**	.....	.....	.....	.....
55. Burns Lake......	Provincial	109.10	22.20	411.10	525.80	1068.20	53.60	.....	.....	137.60
	Classified	**36.20**	**.80**	**2.30**	.....	**39.30**	.....	.....	.....	.....
Regional Totals...	Provincial	511.22	936.38	751.24	1678.91	3877.75	402.70	2081.11	81.75	630.32
	Classified	**97.93**	**60.36**	**13.82**	**8.05**	**180.16**	.....	.....	.....	.....
REGION 6										
61. Nanaimo.........	Provincial	92.15	36.00	353.65	706.75	1188.55	102.58	18.40	28.32	22.40
	Classified	**48.34**	**9.33**	**6.04**	**25.00**	**89.51**	.....	.....	.....	.....
62. Saanich.........	Provincial	23.24	71.00	242.46	738.08	1074.78	124.29	.....	.....	69.26
	Classified	**44.43**	**44.98**	**27.49**	**1.11**	**118.01**	.....	.....	.....	.....
63. Port Alberni....	Provincial	167.60	43.50	35.30	665.10	911.50	423.30	29.90	7.20	.....
	Classified	**17.41**	**15.95**	.....	.....	**33.36**	.....	.....	.....	.....
64. Courtenay.......	Provincial	286.50	154.30	43.40	941.50	1425.70	178.10	376.80	.....	106.10
	Classified	**42.65**	**28.30**	.....	**22.49**	**93.44**	.....	.....	.....	.....
Regional Totals...	Provincial	569.49	304.80	674.81	3051.43	4600.53	828.87	425.10	35.52	197.76
	Classified	**152.83**	**98.56**	**34.33**	**48.60**	**334.32**	.....	.....	.....	.....
Totals............	Provincial	5347.79	3533.90	10197.04	22529.42	41608.15	7302.95	4101.12	1817.95	2668.97
	Classified	**1220.17**	**663.64**	**407.05**	**97.05**	**2387.91**	**29.30**	.....	.....	.....
Grand Totals......	Provincial & Classified	6567.96	4197.54	10604.09	22626.47	43996.06	7332.25	4101.12	1817.95	2668.97

HIGHWAYS STATISTICS

STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS AND CLASSIFIED HIGHWAYS

By Surface Type
(Classified in Bold Type)

METRIC MEASURES

Region & Highway District	Provincial and Classified	A Portland Cement Concrete	A Bituminous Plantmix	B Bituminous Roadmix & Soil Cement	C Gravelled	D Not Gravelled	Total km Open	Right-of-Way Cleared	Right-of-Way Established	Total Distance Not Open
REGION 1										
11. North Vancouver.	Provincial	2.00	117.31	55.91	113.59	.92	289.73	6.58	8.94	15.52
	Classified	.....	143.20	.....	4.08	.....	147.28	.....	.....	.....
13. Gibsons.........	Provincial	.....	276.48	98.30	165.03	18.20	558.01	19.91	152.72	172.63
	Classified	.....	24.71	.88	.....	.....	25.59	.....	.....	.....
14. New Westminster.	Provincial	2.67	50.94	12.75	8.24	.21	74.81	3.12	.34	3.46
	Classified	1.49	518.66	16.54	.....	.....	536.69	3.94	20.84	24.78
15. Chilliwack......	Provincial	.....	501.20	62.58	222.53	72.56	858.87	32.96	14.87	47.83
	Classified	1.88	219.13	29.72	.33	.....	251.06	.....	.....	.....
Regional Totals...	Provincial	4.67	945.93	229.54	509.39	91.89	1781.42	62.57	176.87	239.44
	Classified	3.37	905.70	47.14	4.41	.....	960.62	3.94	20.84	24.78
REGION 2										
21. Kamloops........	Provincial	.....	360.90	344.00	1044.70	223.80	1973.40	68.10	6.60	74.70
	Classified	.....	50.00	6.70	.....	.....	56.70	.....	.....	.....
22. Salmon Arm......	Provincial	.....	399.17	149.64	546.79	136.01	1231.61	76.54	50.21	126.75
	Classified	.....	50.91	.....	.....	.....	50.91	.....	.....	.....
23. Vernon..........	Provincial	.....	264.71	206.68	491.34	55.90	1018.63	.....	81.80	81.80
	Classified	.....	73.16	11.83	.....	.....	84.99	.....	.....	.....
24. Penticton.......	Provincial	.....	369.29	423.98	423.47	186.01	1402.75	.....	55.31	55.31
	Classified	.....	50.22	5.30	.....	.....	55.52	.....	.....	.....
25. Merritt.........	Provincial	.....	246.27	215.13	460.77	289.34	1211.51	9.47	5.29	14.76
	Classified	.....	8.97	6.86	.....	.....	15.83	.....	.....	.....
26. Lillooet........	Provincial	.....	84.80	231.40	640.97	63.20	1020.37	.....	58.20	58.20
	Classified	.....	17.00	.....	.....	.....	17.00	.....	.....	.....
27. 100 Mile House..	Provincial	.....	327.22	139.84	1260.27	283.71	2011.04	102.36	38.69	141.05
	Classified	.....	6.51	.54	.....	.....	7.05	.....	.....	.....
29. Kelowna.........	Provincial	.....	552.89	182.08	226.25	37.91	999.13	217.50	36.06	253.56
	Classified	.....	61.55	8.26	.67	.....	70.48	.....	.....	.....
Regional Totals...	Provincial	.....	2605.25	1892.75	5094.56	1275.88	10868.44	473.97	332.16	806.13
	Classified	.....	318.32	39.49	.67	.....	358.48	.....	.....	.....
REGION 3										
31. Nelson..........	Provincial	.79	264.05	120.75	273.94	64.57	724.10	.....	28.11	28.11
	Classified	.30	12.00	.....	.....	.....	12.30	.....	.....	.....
32. Rossland........	Provincial	.42	248.21	111.86	136.23	27.57	524.29	19.01	71.29	90.30
	Classified	.....	40.45	.....	.....	.....	40.45	.....	2.02	2.02
33. Grand Forks.....	Provincial	.....	178.06	317.28	329.26	215.66	1040.26	20.52	29.17	49.69
	Classified	.....	17.37	.....	.....	.....	17.37	.....	.....	.....
34. New Denver......	Provincial	.....	104.90	264.50	231.12	101.90	702.42	2.76	54.78	57.54
	Classified	.....	3.50	7.90	.....	.....	11.40	.....	.....	.....
35. Cranbrook.......	Provincial	.....	274.20	111.00	398.10	224.50	1007.80	15.80	50.90	66.70
	Classified	.....	15.60	4.00	.....	.....	19.60	.....	.....	.....
36. Fernie..........	Provincial	.....	157.70	133.41	204.39	135.68	631.18	74.02	239.93	313.95
	Classified	.....	58.76	.....	.87	.....	59.63	.....	.....	.....
37. Golden..........	Provincial	.....	360.60	81.90	304.50	34.80	781.80	70.40	15.90	86.30
	Classified	.....	12.20	1.20	.....	.....	13.40	.....	2.50	2.50
38. Revelstoke......	Provincial	.....	200.87	117.03	102.94	32.08	452.92	25.79	5.70	31.49
	Classified	.....	24.01	.40	.....	.....	24.41	.....	.....	.....
39. Creston.........	Provincial	1.08	223.58	120.77	157.46	46.11	549.00	13.99	23.87	37.86
	Classified	.....	7.39	.....	.....	.....	7.39	.....	.....	.....
Regional Totals...	Provincial	2.29	2012.17	1378.50	2137.94	882.87	6413.77	242.29	519.65	761.94
	Classified	.30	167.27	37.11	1.27	.....	205.95	.....	4.52	4.52

STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS AND CLASSIFIED HIGHWAYS

By Surface Type
(Classified in Bold Type)

METRIC MEASURES

Region & highway District	Provincial and Classified	A Portland Cement Concrete	A Bituminous Plantmix	B Bituminous Roadmix & Soil Cement	C Gravelled	D Not Gravelled	Total km Open	Right-of-Way Cleared	Right-of-Way Established	Total Distance Not Open
REGION 4										
41. Prince George...	Provincial	.....	500.22	113.07	667.58	218.17	1499.04	146.19	161.14	307.33
	Classified	.....	**71.70**	.....	**9.58**	.....	**81.28**	.....	.....	.....
42. Quesnel.........	Provincial	.....	542.92	14.38	1335.84	366.50	2259.64	43.99	36.10	80.09
	Classified	**.59**	**17.81**	.....	.....	.....	**18.40**	.....	.....	.....
43. Dawson Creek....	Provincial	.....	546.04	32.90	1762.00	259.27	2600.21	57.47	1979.30	2036.77
	Classified	.....	**80.74**	.....	**25.97**	.....	**106.71**	.....	.....	.....
44. Fort St. John...	Provincial	.....	255.07	46.20	1795.08	413.40	2509.75	47.90	1296.42	1344.32
	Classified	.....	**62.58**	.....	**14.30**	.....	**76.88**	.....	.....	.....
45. Vanderhoof......	Provincial	.....	270.16	4.10	1079.44	65.69	1419.39	121.57	228.57	350.14
	Classified	.....	**41.85**	.....	**4.20**	.....	**46.05**	.....	.....	.....
46. McBride.........	Provincial	.....	334.73	93.90	242.21	65.75	736.59	19.63	15.76	35.39
	Classified	.....	**2.45**	.....	.....	.....	**2.45**	.....	.....	.....
47. Williams Lake...	Provincial	.....	472.49	2.88	1461.84	1104.41	3041.62	68.48	41.75	110.23
	Classified	.....	**16.61**	.....	.....	.....	**16.61**	.....	.....	.....
Regional Totals...	Provincial	.....	2921.63	307.43	8343.99	2493.19	14066.24	505.23	3759.04	4264.27
	Classified	**.59**	**293.74**	.....	**54.05**	.....	**348.38**	.....	.....	.....
REGION 5										
51. Prince Rupert...	Provincial	.....	279.67	.79	128.52	31.71	440.69	.....	66.13	66.13
	Classified	.....	**95.05**	**2.16**	**2.00**	.....	**99.21**	.....	.....	.....
52. Terrace.........	Provincial	.....	307.13	2.38	138.80	2.85	451.16	49.79	91.52	141.31
	Classified	.....	**18.85**	.....	.....	.....	**18.85**	.....	.....	.....
53. Dease Lake......	Provincial	.....	32.36	182.08	547.97	108.78	871.19	.....	.50	.50
	Classified	.....	.....	.....	.....	.....	.....	.....	.....	.....
54. Smithers........	Provincial	.....	323.63	2.28	680.59	40.01	1046.51	17.11	124.05	141.16
	Classified	.....	**22.05**	.....	**.75**	.....	**22.80**	.....	.....	.....
55. Burns Lake......	Provincial	.....	225.50	12.40	71.460	115.70	1068.20	23.80	29.80	53.60
	Classified	.....	**38.80**	.....	**.50**	.....	**39.30**	.....	.....	.....
Regional Totals...	Provincial	.....	1168.29	199.93	2210.48	299.05	3677.75	90.70	312.00	402.70
	Classified	.....	**174.75**	**2.16**	**3.25**	.....	**180.16**	.....	.....	.....
REGION 6										
61. Nanaimo.........	Provincial	.....	522.61	288.12	376.67	1.15	1188.55	4.58	98.00	102.58
	Classified	.....	**89.51**	.....	.....	.....	**89.51**	.....	.....	.....
62. Saanich.........	Provincial	.....	326.63	398.37	329.21	20.57	1074.78	12.08	112.21	124.29
	Classified	.....	**100.19**	**17.82**	.....	.....	**118.01**	.....	.....	.....
63. Port Alberni....	Provincial	.....	469.40	119.40	321.50	1.20	911.50	10.30	413.10	423.30
	Classified	.....	**33.36**	.....	.....	.....	**33.36**	.....	.....	.....
64. Courtenay.......	Provincial	.40	663.60	314.20	442.70	4.80	1425.70	13.50	164.60	178.10
	Classified	.....	**83.75**	**8.08**	**1.61**	.....	**93.44**	.....	.....	.....
Regional Totals...	Provincial	.40	1982.24	1120.09	1470.08	27.72	4600.53	40.46	787.91	828.27
	Classified	.....	**306.81**	**25.90**	**1.61**	.....	**334.32**	.....	.....	.....
Totals............	Provincial	7.36	11635.51	5128.24	19766.44	5070.60	41608.15	1415.22	5887.63	7302.75
	Classified	**4.26**	**2166.59**	**151.80**	**65.26**	.....	**2387.91**	**3.94**	**25.36**	**29.30**
Grand Totals......	Provincial & Classified	11.62	13802.10	5280.04	19831.70	5070.60	43996.06	1419.16	5912.99	7332.05

REPORT OF THE INSURANCE AND CLAIMS OFFICER

G.A. Cavin

The period involved in the motor vehicle statistics is from April 1, 1984 to March 31, 1985.

The number of traffic accidents involving vehicles owned by (or leased to) the government was 1399, including 124 accidents in which the government vehicles were parked. In the previous year there were 1471 accidents.**

MOTOR VEHICLES INVOLVED IN ACCIDENTS (1983/84 figures in parentheses)**

Ministry	Number of Accidents		Number of Vehicles		Per Cent of Vehicles		Per Cent of Accidents	
Agriculture & Food	16	(11)	176	(192)	1.83	(1.9)	1.14	(.74)
Attorney General	91	(132)	996	(894)	10.36	(8.7)	6.48	(8.94)
Consumer & Corporate	4	(13)	53	(52)	.55	(.5)	0.28	(.88)
Liquor Distribution Branch	0	(0)	25	(22)	.26	(.2)	0.00	(0.00)
Energy, Mines and Petroleum Resources	5	(12)	85	(85)	.88	(.8)	0.36	(.81)
Environment	55	(56)	455	(475)	4.73	(4.6)	3.91	(3.79)
Finance	8	(6)	55	(58)	.57	(.6)	0.57	(.41)
Forests	209	(273)	1492	(1646)	15.51	(16.1)	14.88	18.48)
Health	227	(179)	920	(1001)	9.57	(9.8)	15.16	(12.12)
Human Resources	84	(91)	444	(503)	4.62	(4.9)	5.98	(6.16)
Labour	16	(15)	173	(194)	1.80	(1.9)	1.14	(1.02)
Lands, Parks & Housing	37	(51)	384	(449)	3.99	(4.4)	2.63	(3.45)
Provincial Secretary and Government Services	21	(19)	85	(109)	.88	(1.1)	1.50	(1.29)
Transportation & Highways	624	(616)	4230	(4500)	43.98	(43.9)	44.41	(41.71)
Tourism	4	(1)	22	(37)	.23	(.4)	0.28	
All Other Ministries	4	(2)	23	(16)	.24	(.2)	0.28	(.20)
TOTAL	1,405*	(1,477)	9,618	(10,233)	100.00	(100.00)	100.00	(100.00)

* There were six accidents involving two or more vehicles of different ministries.
There were 69 accidents involving two or more vehicles of the same ministry.

** Some of the figures for 1983-84 have been increased or amended from the previous annual report due to the late reporting of accidents occurring during that time period.

Recovered from the Insurance Corporation of British Columbia and other automobile liability insurers, was an amount of $249,851.66 for damages to government vehicles.

Claims other than those arising out of accidents involving government motor vehicles resulted in recovery of repair costs of $809,724.55 in 403 accidents for damages to guardrails, bridges signs, lamp or signal standards, fences, posts and poles and miscellaneous items such as flagging, clean-up of spills, pavement repairs and vandalism.

Some of the major items of recovery were $92,500 for repairs of the Blueberry River Bridge 10809 in the Fort St. John Highways district; $82,500 for repairs of Rattlesnake Bridge in the Merritt Highways district; and $17,760 for damage to abutment, posts, railing and curb in the Dawson Creek district.

Not included in these recoveries were 17 claims against insurance policies purchased by the Government, totalling $266,601.44. Major claims were $10,873 (fire loss MV Arbutus II), $13,655.02 for contents at Viewfield Road Warehouse, $17,911.39 on behalf of the B.C. Steamship Co. for an accident on board the Princess Marguerite, $44,407.42 for an automobile accident in California, and $153,942.86 as a result of three claims arising from an aircrash accident near Cranbrook.

Other recoveries not included in the foregoing involved 51 claims arising from the transferring of government employees, 48 of these being from damage to household effects, and three for damage to mobile homes. The amount recovered from the Provincial Government's insurers and the carriers totalled $11,051.34.

The total paid out for 161 miscellaneous third party claims was $145,052.76, including $25,000 (insurance policy deductible) for claims handled on behalf of British Columbia Steamship Company, and $1,488.04 paid out for claims arising from operations of ministry ferries.

In 29 law suits in which the government was the defendant, 11 were settled out of court, three were withdrawn, six were dismissed, nine were discontinued.

In 14 cases in which the government was plaintiff, 10 were settled out of court, two discontinued, one judgement was in the government's favour and one was dismissed.

There are presently 150 cases in various stages of litigation, the government being the plaintiff in 30 of these.

The decrease in motor vehicle accidents which commenced in the fiscal year 1982/1983, has continued for the third successive year.

The renewing and refining of special project insurances relating to the Annacis System continue to require considerable attention. Premiums paid for these insurance policies totalled $701,348.

PREMIUMS PAID FOR INSURANCE PLACED DURING 1984/85:

B.C. Steamship Co. (1975) Ltd.	$ 79,494.00
Ministry of Transportation & Highways	1,055,143.93
Commissions and other Ministries	199,445.69
TOTAL	$1,334,083.62

HIGHWAYS OPERATIONS

REPORT OF THE DIRECTOR OF HIGHWAY DESIGN AND SURVEYS

E. E. Readshaw, P.Eng.

Program

During the fiscal year from April 1, 1984 to March 31, 1985, the Design and Surveys Branch worked on a total of 191 projects representing 1029.39 km of two and four lane highway.

Design Activities

The major areas of design effort have been the Coquihalla Highway, Annacis Project and Highway 99 from Horseshoe Bay to Squamish.

Within Phase I of the Coquihalla Highway (Hope to Merritt), 22 major designs representing 126 km of new four lane freeway have been completed and awarded to contract. Design and construction is proceeding on Phase II (Merritt to Kamloops) and a corridor study is underway on Phase III (Merritt to Okanagan).

Eight construction projects totalling 21.9 km, and four wick drain projects, three railway relocations, three dredging contracts and one hogfuel fill contract on the Annacis Highway from Highway 99 at Mud Bay to the Queensborough Bridge in New Westminster were awarded in 1984/85. Four projects for the Richmond East/West Freeway from Annacis to Highway 99 and No. 5 Road interchange are being designed.

Along the Squamish Highway (No. 99), major debris torrent control basin designs were awarded to contract for Harvey, Charles and Magnesia Creeks.

Eight miscellaneous and "other" highway contracts totalling 34.6 km were also awarded throughout the Province.

The following table is a listing of the projects being designed and shows the three principal stages of investigation. Preliminary studies being work carried out to determine the most acceptable and feasible alignment, surveys which consists of field work to obtain engineering detail, and; design in which final detailed plans are prepared for construction.

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 1					
Capilano - Lynn Valley Including Westview and Lonsdale	4.2	90			6 Lane Freeway Design
Wahleach Power Station - Cheam View	4.94		100	100	4 Lane Freeway Design
Cheam View - Jones Creek	5.73		100	100	4 Lane Freeway Design
Floods to Hope	15.5		100	95	4 Lane Freeway Design
McKay Siding Overpass	1.6			100	
Sumas Canal to Vedder Canal	3.0		85	30	4 Lane Freeway Design
Annis Road Interchange	4.5		100	90	Elimination of Grade Intersection
Capilano Interchange	0.5	100			Upgrading for 6 Lane Freeway Design
Vedder Interchange (Old Yale Road)	0.8		100	60	
Popkum Interchange			100	80	Conversion to Freeway
Whatcom Interchange			100	70	Conversion to Freeway
Sumas Mountain Overpass			100	50	Conversion to Freeway
SW 1/4, Sec. 9, Tp. 20, R. 19 Cornwall Lodge	3.9		90	75	4 Lane
Sicamous - Cambie	12.5	6	20		4 Lane Freeway, Aerial Mapping
Cambie - Malakwa	8.0		95		Mapping Check
Craigellachie - Perry River	5.0		35		

Name of Project	km	Percentage Complete Prelim. Study	Survey	Design	Comments
HIGHWAY 1 (continued)					
Afton Mine to Aberdeen	6.8		11	8	Conversion to 6 Lane Freeway
Valley View - Campbell Creek		36			Investigate Freeway Layout
Valley View - Campbell Creek Section 2	8.65		100	20	
Salmon River - Shuswap Avenue	2.1	100			4 Lane
Highway No. 1 & 5A Interchange (Aberdeen)	2.0		100	100	Diamond Interchange
Malakwa - Perry River	10.		20		4 Lane Widening
Kay Falls - Eagle River Bridge	3.3		100		4 Lane Widening
Eagle River - Camp Creek	3.8		100		4 Lane Widening
Griffin Lake - Three Valley Lake	8.0		100		4 Lane Widening
Clanwilliam - Helicopter Pad	6.7		100		4 Lane Widening
Golden - Yoho Bridge	11.0		100	87	4 Lane Widening
Mill Bay - Duncan	15.0		74		Upgrade Existing 4 Lane & Frontage Roads
Nanaimo Couplet Terminal/Wallace (Grace Street - Geo Pearson Bridge)	1.5	65	55		
Malahat, km 30.8 to 33.5	2.7		98		4 Lane Plus Left Turn
HIGHWAY 1A					
Fraser Highway and 96th Avenue Intersection				100	
Langley (Railway Separation)	0.6	100			Study for Railway Overpass
HIGHWAY 3					
Hope - Nicolum Creek	8.8		100	100	4 Lane Design Freeway
Highway No. 3 & 95A Interchange at Cranbrook	3.5		100	100	Replace Grade Intersection
Fernie Curb & Gutter	2.0		30		
Hosmer Mapping	1.0		100		For Grid Road Studies
HIGHWAY 3A					
7th Street - Oliver	0.33		70	27	Curb & Gutter
Shoreacres Intersection	1.0		100	90	
Crawford Creek Bridge Approaches			100	95	New Bridge
HIGHWAY 3B					
Trail - Glenmerry	3.0		100	80	4 Lane Design

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 4					
Bridge Site Plans & Approaches	9.0				New Bridges
TR 17			100	90	
Canoe Creek			100		
TR 19			100	99	
Hydro Hill West			100	99	
Hydro Hill East			100	97	
Cedar Creek			100	90	
Indian Creek			100	99	
Ellis Creek			35		
HIGHWAY 5					
CN Junction to North Boundary of I.R. No. 1	6.9		100	65	L-Line Rerun, 4 Lane
HIGHWAY 5A					
Nicola Lake Bluffs at 16.0 km	1.6		100		Improve 2 Lanes
HIGHWAY 7					
Mary Hill Bypass, Ramps to Highway 1			100	80	Connection to Freeway
HIGHWAY 11					
"C" Street to McLure via Beck	4.8		100	100	Phase 1
"C" Street to McLure via Beck	4.8		98	95	Phase 2, Revision
HIGHWAY 12					
Lillooet - Cache Creek Crown Lake Revision	1.75		15		
Sooke Road Passing Lanes (Humpback Road - Section 10)	2.5		100	98	4 Lane Design
Sooke Road Passing Lanes (Kangaroo Road - Connie Road)	2.0		100	45	4 Lane Design
Gillespie Road Intersection	0.5		100	60	
HIGHWAY 16					
Khyex River to Tyee Overhead	9.56		98	50	Upgrade 2 Lane Route
South Hazelton, Kitsequecla Bridge to Carnaby Crossing	9.4		100	90	New 2 Lane Route Replacement
D.L. 2106 to D.L. 338 West of Houston			95	20	4 Lane Curb & Gutter
HIGHWAY 17					
Beacon Avenue Interchange	1.0	100	50	7	Replace Intersection
HIGHWAY 18A					
Cowichan Lake - South Shore Road	3.2		100	15	

Name of Project	km	Percentage Complete Prelim. Study	Survey	Design	Comments
HIGHWAY 19					
George Pearson Bridge - Princess Royal Avenue	2.9	100	50		4 Lane Curb & Gutter
Parksville Curb & Gutter Molliet Street to Englishman River	4.1		90	60	Partial Redesign of 4 Lane
Little Qualicum River - Mistaken Road	1.2		100	97	Addition of 3rd Lane
McCullough Road Intersection	0.3		100	99	
Port Hardy to Coal Harbour Area (Lamonte Creek Site Plan and Approaches)	0.5		100	85	New Bridge
Keogh River Site Plan and Approaches	1.2		100	97	New Bridge
Ware Road Intersection	0.5		100	50	
HIGHWAY 22					
Castlegar Curb & Gutter (7th Avenue, 16th Street to Highway 3)	3.2		100	99	
Trail - Tadanac Relocation	2.5		100	90	4 Lane Design
HIGHWAY 24					
Little Fort - Cariboo Highway (Little Fort to Lemieux Creek Road)	4.19		75	40	New Bridge and Connection to Highway 5
HIGHWAY 29					
Site "C" Dam Road Diversion Section 1 Hydraulic Model (Attachie Slide)				100	
HIGHWAY 31					
Relocation of Highway 31 and Davis Creek Bridge at Lardeau	1.0		100	90	
Lost Ledge Creek Culvert	1.0		100	80	
HIGHWAY 33					
Highway 97 - MacKenzie Road (Rutland)	5.2		100	100	Curb & Gutter
HIGHWAY 95					
Radium Junction	1.0		100	50	Upgrade Intersection for 4 Lane Curb & Gutter
HIGHWAY 97					
Penticton - Trout Creek	8.0		100	90	4 Lane Upgrading
Westbank - Kelowna, Section 1 I.R. #9 and East Boundary Road	3.7		96	80	4 Lane Upgrading
Harvey Avenue Kelowna (Pandosy Street to Princess)	1.70		100	100	6 Lane Widening
Winfield, Beaver Lake Road - Pretty Road	4.0	60	100		4 Lane Upgrading
Bailey Road - Vernon	11.0		100	100	4 Lane Upgrading
Mile 83 to 100 Mile House	23.5		70	45	Improve Alignment and 4 Lane Hill Section

Name of Project	km	Percentage Complete			Comments
		Prelim. Study	Survey	Design	
HIGHWAY 97 (continued)					
Borland Creek (150 Mile House)	1.5		30	75	New Culvert
Quesnel Bypass	5.0	80	40		New Route Study
Bear Lake, BCR Underpass	2.0		95	20	Replace Grade Crossing
Red Rocky Creek to 42 Mile Creek	19.9		98	80	2 Lane Upgrade Alignment
Bennett Creek - Westpine River Bridge	19.0		80	10	2 Lane Upgrade Alignment
HIGHWAY 99					
Taylor Way - Keith Road Intersection			100	30	Upgrade Movements
Horseshoe Bay - Squamish (Horseshoe Bay to Lonetree Creek)	9.7		30		4 Lane
Horseshoe Bay - Lonetree Creek (Newman Creek Site Plan at Railway)			20	100	Creek Channelization
Lonetree Creek to "M" Creek	4.4		99	22	4 Lane
Lonetree Creek to "M" Creek (Alberta Creek Diversion)			100		Creek Channelization
Lonetree Creek to "M" Creek (Rundle Creek Debris Basin)			100		Debris Basin and Creek Channelization
"M" Creek to Porteau Cove	8.5		18		4 Lane Highway Design
Porteau Bluff Alterations		93			4 Lane Highway Design
Porteau Cove to Brittania	10.0	24	28	10	4 Lane Highway Design
Horseshoe Bay - Pasco Road	3.6		15		4 Lane Highway Design
Pasco Road - Montizambert Creek	2.5		98	1	4 Lane Highway Design
Montizambert Creek - Turpin Creek	2.5		60		4 Lane Highway Design
Newman Creek Bridge Approaches and Channel Diversion	0.7		100	100	
Newman Creek - Kelvin Grove	1.7		100		4 Lane Design
Kelvin Grove - Rundle Creek and Alberta Creek - Magnesia Creek	2.55		100	2	4 Lane Design
Rundle Creek - Alberta Creek (Lions Bay)	0.65		100	95	Interchange at Harvey Creek Channel
Magnesia Creek - "M" Creek	0.6		80		
Magnesia Creek			100	100	Debris Torrent Control Facility

		Percentage Complete			
Name of Project	km	Prelim. Study	Survey	Design	Comments
HIGHWAY 99 (continued)					
Harvey Creek			100	100	Debris Torrent Control Facility
Charles Creek			100	100	Debris Torrent Control Facility
"M" Creek - Kallahane Creek	8.0		30		
Kallahane Creek - Furry Creek	4.8		15		
Furry Creek - Daisy Creek	3.0		100		
Daisy Creek - Brittania Creek	2.7		90	50	
ANNACIS HIGHWAY SYSTEM					
Queensborough Bridge 6th Avenue and 5th Avenue, Intersection	1.8		100	100	New
Annacis Truck Route, Belgrade to Carter	2.4		100	100	New 2 Lane Road
64th Avenue Connector	2.0		100	40	4 Lane Curb & Gutter
88th Avenue Connector	1.5		100	70	4 Lane
Mud Bay to Highway 10 and Railway Relocation	0.2 2.44		100	100	Grading Only
Highway 10 to Scott Road	1.1		100	80	Upgrade to 4 Lane
Highway 99 to Highway 10)	8.5		100	10	New 4 Lane Freeway
Highway 10 to 64th Avenue)			100	50	New 4 Lane Freeway
64th Avenue - Nordel I/C)			100	85	New 4 Lane Freeway
Cliveden Interchange			100	100	Freeway Interchange
Queensborough Connector	2.4		100	60	New 4 Lane Freeway
Richmond Connector	3.6		100	40	4 Lane Freeway
RICHMOND EAST/WEST FREEWAY					
Jacombs Road to Hamilton I/C	9.4		95	80	New 4 Lane Freeway
Highway 99 I/C, Stage I	1.5		100	10	Replace Interchange
Jacombs Road Approach Fills and Preload	0.45		100	100	
Shell Road to Jacombs Road, Stage II	4.5		90	35	
COQUIHALLA HIGHWAY					
Hope to Nicolum Creek	4.5	100	100	100	New 4 Lane Freeway
Nicolum Creek to Peers Creek	4.9	100	100	100	Constructed
Peers Creek to Ten Mile	5.15	100	100	100	New 4 Lane Freeway
Ten Mile to Sowaqua Creek	3.33	100	100	100	New 4 Lane Freeway
Sowaqua Creek to Ladner	6.12	100	100	100	New 4 Lane Freeway
Ladner to Portia	5.2	100	100	100	New 4 Lane Freeway
Portia to Box Canyon	6.7	100	100	100	New 4 Lane Freeway

		Percentage Complete			
Name of Project	km	Prelim. Study	Survey	Design	Comments
COQUIHALLA HIGHWAY (continued)					
Box Canyon to Boston Bar Summit	8.3	100	100	100	New 4 Lane Freeway
Boston Bar Summit to Dry Gulch	4.50	100	100	100	Constructed
Dry Gulch to Mine Creek	9.34	100	100	100	Constructed
Mine Creek to Juliet Creek	5.97	100	100	100	New 4 Lane Freeway
Juliet Creek to Coldwater Crossing No. 3	6.6	100	100	100	New 4 Lane Freeway
Coldwater Crossing No. 3 to Larson Hill	6.84	100	100	100	New 4 Lane Freeway
Larson Hill to Hydro Crossing	10.9	100	100	100	New 4 Lane Freeway
Hydro Crossing to Glenwalker	10.3	100	100	100	New 4 Lane Freeway
Glenwalker to Highway 5A Interchange	13.0	100	100	100	New 4 Lane Freeway
Highway No. 5A Interchange to Nicola Interchange	5.0	100	100	100	New 4 Lane Freeway
Merritt Bypass	5.0	100	100	100	New 4 Lane Freeway
Merritt - Shuta Creek	8.8	100	100	98	New 4 Lane Freeway
Shuta Creek - Kamloops	64.0	100	100	100	Feasibility and Environmental Socio-Economic Study
Shuta Creek - Clapperton Canyon	11.1	100	75	15	New 4 Lane Freeway
Clapperton Canyon - Sussex Lake	12.0	100	98	30	New 4 Lane Freeway
Sussex Lake to Meadow Creek Road	12.5	100	25	5	New 4 Lane Freeway
Meadow Creek Road to Stake Lake	6.5	100	85	8	New 4 Lane Freeway
Stake Lake to Sugarloaf	13.0	100	30	10	New 4 Lane Freeway
Sugarloaf to Highway 1	10.5	100	20	8	New 4 Lane Freeway
Coquihalla to Okanagan	95.0	80			Corridor Study
Highway 3 to Dewdney Creek			100		Updating
Coquihalla Route, Stage 2 Hope to Lear		75			Stage 2 Environmental Report (Draft Complete)
MISCELLANEOUS HIGHWAYS					
REGION 1					
Scott Road (Highway 10 to 80th Avenue)	4.2		100	20	4 Lane Curb & Gutter
East/West Connector, Northshore Port Moody	8.0	95	40		Grid Road Study
Mary Hill Bypass/Lougheed Highway Intersection		60	25		
REGION 2					
Westside to Nahun, I.R. #10 to Wilson's Landing	19.1		81	10	Relocate 2 Lane
Kingston Avenue: Halston Interchange to North Thompson River Bridge	0.6		100	100	4 Lane Curb & Gutter

Name of Project	km	Percentage Complete Prelim. Study	Survey	Design	Comments
MISCELLANEOUS HIGHWAYS (continued)					
REGION 3					
Wardner - Fort Steele Road, Wildhorse Creek Revision	0.8		100	50	Improve Alignment of Existing Road
Passmore to Vallican, Little Slocan River Crossing	2.0		100	85	Approaches to Bridge
Kettle River Bridge Site and Approaches, 13th Street SW, Grand Forks	1.0		100		
Salmo Curb & Gutter	0.5		30		4 Lane Curb & Gutter
Runaway Lanes			40		Regional Study
Atwood Bridge Site Plan, Kettle River, Grand Forks	0.5		100	30	
Sand Creek Site Plan	0.5		100	20	
Betania Bridge, Demsey Road, Fernie	0.5		60		
REGION 4					
Vanderhoof 4th Street to Victoria Street Boundary Avenue, Highway Overhead CNR	1.0		98	70	Replace CNR Grade Crossing
Heritage Highway, Arras to Tupper, Muskeg Lake to Quality Creek	38		95	70	Pave & Upgrade Gravel Road
Heritage Highway, Arras to Tupper, Brassey Creek to Muskeg Lake	24		20		Pave & Upgrade Gravel Road
MacKenzie Avenue and Glendale Avenue, Comer Avenue to Weldwood Access	3.1		98	20	4 Lane Curb & Gutter
Appasson Bridge, Road 101, Blueberry Road, St. John District	1.6		95		
REGION 5					
Cedar River to Tseax Junction (Nass River) Section 1, Cedar River to Sand Lake	11.6		98		Improve Forest Access Road
Cedar River to Tseax Junction, (Nass River) Section 2, Sand Lake to Lava Lake	15.0		35		Improve Forest Access Road
Cedar River to Tseax Junction, (Nass River) Section 3, Lava Lake to Tseax Junction	18.0		55		Improve Forest Access Road
REGION 6					
Nanaimo Bypass (Line Revisions)	26.9	30	6		Mapping
Marble River Site Plan and Bridge Approaches (Alternate)	1.0		100	95	New Bridge and Relocated Approach
Durrance Lake Road Relocation	5.2	100	100	97	Relocate Old Road to Avoid Weapons Range

		Percentage Complete			
Name of Project	km	Prelim. Study	Survey	Design	Comments
MISCELLANEOUS HIGHWAYS (continued)					
REGION 6 (continued)					
Port Albion Bridge and Approaches	2.8		100	100	
Yellowpoint Road, Section 4	1.2		100	100	
Cortes Island, Miscellaneous Roads	10.0		100	100	Submitted to District
Bridge Site Plans, Western Mines Road, Thelwood, Henshaw, Ralph and Lupin	1.5		100	80	
Humpback Road, Highway 14 - Highway 1	5.0	40	50	5	New Route Investigation
Craigflower and Cooper Road Intersection	0.5		100	100	Submitted to District
Government Street, Duncan, Craig Street to Brae Road	0.3		100		
Section 4 Road, Lasqueti Island	5.2		100		

Preliminary Study Section

Before design is undertaken, studies of possible and feasible routes are usually made. A necessary aid to the performance of these studies is aerial mapping at various scales obtained from aerial photographs. To this end sufficient photography was obtained to produce mapping on the following:

1. Salmon River - Shuswap Avenue.
2. Afton Mine - Valleyview.
3. Merritt - Kamloops Alternates

Low order mapping was obtained on the following:

1. Merritt - Kamloops Alternatives.

High order mapping was obtained on the following:

1. Sicamous - Cambie.
2. Cambie - Malakwa.
3. Eagle river - Camp Creek.
4. Griffin Lake - Three Valley Lake.
5. Clanwilliam - Pine Road.
6. Craigellachie - Perry River.
7. Kay Falls - Eagle River Bridge.
8. Afton - Aberdeen.
9. Nanaimo Bypass Revisions.

Preliminary Studies:

1. Porteau Bluffs.
2. Nanaimo Bypass.
3. Langley Overhead.
4. Salmon River - Shuswap Avenue.
5. Valleyview.
6. Sicamous - Revelstoke.
7. Manning Park Boundary - Mile 20.
8. Capilano Road Interchange.
9. Knight Street Interchange.
10. Skagit Bluffs.
11. Similkameen Falls - Friday Creek.
12. Dease Lake - Sawmill Point.
13. Vedder Interchange.

Design:

1. Annacis Dredging No. 6.
2. Queensborough Bridge, North Approach.
3. Richmond East/West Freeway.
4. Annacis Dredging No. 7.
5. Annacis Dredging No. 8.

Sound Control

The Annacis Island Crossing and its connecting highways continue to occupy much of the sound control studies engineer's time. Monitoring of noise levels from the construction of the main bridge and Delta interchanges has been conducted intermittently. A traffic noise impact assessment of the various Delta connector routes to the Annacis system was done as part of an overall environmental and social impact study requested by Delta Municipality. Computer modeling of Annacis traffic noise in the Richmond/Queensborough area has been updated to reflect the final alignment.

Assessments have been done of future traffic noise impact from the Coquihalla Highway on residents at Merritt and on recreational facilities and residences between Merritt and Kamloops.

Construction noise levels were monitored at the sites of several debris torrent control basins along the Squamish Highway.

Computer Operations

The Design and Surveys Branch continues to advance in the use of computer technology for the design and surveys of Highways. Branch field offices have been equipped with micro computers allowing field staff to process their own survey information. Field offices are presently being supplied with electronic survey instruments commonly called "total stations" and data collectors, which greatly expedite and increase the accuracy of survey data collection. These allow the instrumentman to take readings which are recorded automatically without having to ever write down a reading or make a calculation. It is all done for him electronically. The rodman too never has to use a chain or tape, merely move from one ground point to another using radio to communicate with the instrumentman. These data are transmitted directly to the computer that day and plots of the work are available immediately – barring mailing time. This development alone has vastly increased survey productivity. The Branch now has five total station instruments. With the installation of two large-format plotters, contract drawings are produced quickly and accurately. The Branch is currently evaluating a new computer highway design package having the capabilities to produce three dimensional models, plan drawings and do interchange design. If this system is adopted it could greatly enhance all stages of highway design and surveys.

Consultants

This past calendar year the Ministry has requested consulting firms to carry out the survey and/or design work on the following projects many of which are still under way.

1. Scott Road –– 5.0/km of improvement of existing road to five lanes.
2. Highway 97 Beaver Lake Road –– Winfield, 4.0 km of four laning.
3. Highway 1 Ramps connecting Mary Hill Bypass, 2 km.
4. Annacis Highway –– 1.6 km of four lane, 64th Avenue Connector.
5. Annacis Highway –– 2.0 km of four lane, 88th Avenue connector.

Highway 1 – Upgrading to Freeway Status

a) Whatcom Interchange –– Highway 1 underpass of Whatcom Road plus diamond interchange ramps and frontage roads.
b) Sumas Mountain Overpass –– Highway 1 overpass of the frontage road connection at Kilgard Road.
c) Vedder Interchange –– Highway 1 underpass of Old Yale Road plus diamond interchange ramps and frontage roads.
d) Popkum Interchange –– Highway 1 underpass and diamond interchange with connecting frontage roads at Popkum Road plus improvements to Rosedale Interchange.
e) Hunter Creek Interchange –– Highway 1 overpass of Hunter Creek Road plus diamond interchange ramps and 6.0 km of new construction to extend Laidlaw Road to the interchange.

Coquihalla Highway, Phase I - Hope to Merritt

a) Hope to Nicolum Creek — 8.37 km of new four lane freeway from 3.2 km east of Hope to 12 km east of Hope on old Highway No. 3.
b) Ladner to Portia — 5.2 km of new four lane freeway.
c) Portia to Box Canyon — 6.74 km of new four lane freeway.
d) Box Canyon to Summit — 8.25 km of new four lane freeway.
e) Coldwater Crossing No. 3 to Larson Hill — 6.84 km of new four lane freeway.
f) Larson Hill to Powerline Crossing — 10.92 km of new four lane freeway.
g) Powerline Crossing to Glenwalker — 10.3 km of new four lane freeway.
h) Glenwalker to Highway 5A Interchange — 12.98 km of new four lane freeway.
i) Merritt Bypass — 5.0 km of new four lane freeway plus two reinforced concrete underpass structures and one reinforced concrete bridge.

Coquihalla Highway, Phase II - Merritt to Kamloops

a) Merritt to Shata Creek — 8.78 km of new four lane freeway.
b) Shata Creek to Clapperton Canyon — 10.7 km of new four lane freeway plus an underpass structure for Grimshire Road.
c) Clapperton Canyon to Sussex Lake — 12 km of new four lane freeway.
d) Sussex Lake to Meadow Creek Road — 12.5 km of new four lane freeway.
e) Meadow Creek Road to Stake Lake — 6.5 km of new four lane freeway plus Coquihalla Highway overpass of Meadow Creek Road and interchange ramps.
f) Stake Lake to Sugarloaf — 13 km of new four lane freeway.
g) Sugarloaf to Highway 1 — 10.5 km of new four lane freeway plus Coquihalla Highway overpass of Highway 1 and interchange ramps.
h) Afton to Aberdeen — 6.8 km of Highway 1 upgrading to freeway status including Highway 1 underpasses of Copperhead Drive and Pacific Way plus interchange ramps and frontage road connections.
i) Aberdeen Interchange — Highway 1 underpass of Highway 5A plus diamond interchange ramps and a reinforced concrete box six lane underpass structure.

Coquihalla, Phase III - Okanagan Connector

A 90 km corridor study beginning on Highway 5A and ending in the Okanagan on Highway 97.

Hydraulic Engineer

The accelerated construction schedule for the Coquihalla Highway has contributed much of the Hydraulic Engineer's work load during the past year. Input to this project has included: providing the hydraulic constraints for most of the bridge designs, design of river training dykes, providing consultants with flow estimates and rainfall data and detailed designs of debris basins and drainage works.

The Annacis bridge and freeway has involved the Hydraulic Engineer in discussions with municipal authorities, consultants and fisheries agencies regarding alterations to the existing drainage systems to accommodate the new freeway. A study of the disposal of the large volumes of waste water from the dredge stockpiles was carried out.

Specialist advice was provided to Regional Approving Officers regarding the drainage aspects of proposed subdivisions.

Environmental Section

1984 was the busiest time in the past six years for the environmental section. The announcement of the completion of the Coquihalla Highway by 1986 saw a drastic need to improve upon existing studies done in 1978 through 1980 and to ensure that all environmental approvals and permits were obtained in the shortest possible time to allow construction to proceed. Consequently, the environmental section was extremely busy both initiating studies and assisting contractors and consulting firms in obtaining permits and approvals with the various federal and provincial government agencies. The effort of greatest importance during this period was the ongoing liaison with the Nicola Stock Breeders' Association, as a group and with individual ranchers, on the needs for cattle underpasses, fencing standards, and construction scheduling so that the ranching operations would not be adversely affected during 1984 and into the heaviest construction period in 1985. Most environmental concerns on Phase I were resolved and construction proceeded with very few problems.

In Coquihalla Phase II, studies undertaken at the route feasibility level were coordinated and pushed toward a final route selection by December,1984. The route met acceptance from the various government agencies, although there were a number of interest groups that objected to the route's location near Kamloops. Therefore, additional studies, such as the ski area rehabilitation study, were formulated once the route had been selected. During 1985 a large amount of work is required along with additional monitoring studies.

Ongoing with the Coquihalla project was the completion of many studies on the Annacis project. The Fisheries Hydrology Study now complete, moved into the first phase of the monitoring program. This monitoring study will reach a peak in 1985 followed by one final year of less intensive monitoring in 1986. The two phases of the Richmond East/West Road study, the Nature Park and the roadway from the Nature Park east to Hamilton Interchange, were finalized. The documents received acceptance from the municipality and other government agency groups. The Agricultural Land Commission finally approved the alignment subsequent to successful negotiations on agricultural issues with local farmers. Finally, on the Annacis project, the environmental group designed a seven acre salmon enhancement area on Patrick Island which is now under construction. This area will in many ways compensate fisheries for the loss of habitat due to the filling in of the river at the pier protection works.

Archaeological studies continued throughout the province through salvage and impact assessments. Particular attention was paid to Phase II of the Coquihalla Highway and to the Merritt Bypass section of that project. The St. Mungo Cannery Archaeological Site was excavated and reports received at the end of 1984.

Wildlife/vehicle collisions continued to be a major concern of the Ministry's environment section group. Additional wildlife reflectors for Osoyoos, Peachland and Grand Forks were ordered. These reflectors will be installed in the summer of 1985. Three years of test reflector use in Grand Forks indicates a 60% reduction in wildlife/vehicle collisions in those areas where reflectors have been erected. Further monitoring and computerization of the data from wildlife/vehicle collisions will be done in 1985 jointly between Fish and Wildlife Branch, Ministry of Environment and the Design and Surveys Branch, Ministry of Transportation and Highways.

REPORT OF THE DIRECTOR OF GEOTECHNICAL AND MATERIALS ENGINEERING

J.W.G. Kerr, P. Eng.

Requests for Geotechnical services remained high during the past year. Design and investigation projects for the Fraser River Crossing at Annacis, Richmond East-West Freeway and Coquihalla Highway constituted major commitments. Because of the high demand for services, use of private consulting engineers and equipment rental firms was made for geotechnical investigation and design work wherever necessary.

Geotechnical Highway Design Investigations

Investigations of the Richmond East-West Freeway and associated structures provided much of the new workload in this area. Design and monitoring of lightweight fills using hogfuel and wick drain installations to accelerate settlement was continued for areas such as Queensborough Bridge approach, north approaches to east and Annacis west Channel bridges, south approach to the Fraser River Crossing, 72nd Ave. overpass of the B.N.R., Highway 10 interchange and the Watershed Park Interchange.

Foundation Investigation and Design

Ancillary structures for highway connectors to the Annacis-Fraser River Crossing, Richmond East-West Freeway and Coquihalla Highway resulted in numerous foundation investigations and design projects this past year. Soft soils and short construction timetables required unusual designs to be implemented using, such techniques as vibro-replacement to densify loose sand, hogfuel and geotextile reinforced approach fills, and, super light weight fills of polystyrene foam.

Other projects included designs for the three crossings of the Nicola River, foundation design for a new crossing of the Fraser River at Prince George, bridge foundation design for St. Cyr Creek between Revelstoke and Mica Creek, designs for several small bridges along the Coquihalla Highway, and foundation investigation for Cambie Street Interchange.

Stability Investigations

An increased number of investigations to maintain or restore stability of highways cuts were called for this year. In Region 2 (Kamloops) alone, 32 sites required engineering designs, with three kilometres of the newly constructed Highway 24 west of Little Fort the most notable.

Monitoring of a number of unstable areas and slow-moving slides has been instigated or continued in the past year. Attachie Slide on the Peace River is the most detailed, with Fort St. John District survey crews providing weekly data for analysis and plotting. Continuing creep type failures of bridge approaches at Pavilion, Nechako River Bridge (west of Vanderhoof) and at the Pitt River Bridge are still being monitored.

Reconnaissance and inventory studies of debris torrent areas along Howe Sound were continued. Additionally, there was involvement in a joint task force study with the Ministry of Forests to evaluate the impact of potential logging on slope and stream stability in the Boston Bar Creek valley.

A slope stability computer program (GEOSLOPE) aided in the analysis of the stability of fill designs and also in the interpretation of failed slopes or fills.

Aggregate Investigations

Planned construction projects resulted in the initiating of several large magnitude aggregate exploration programs. Most extensive of these were for the Coquihalla Project from Hope to Kamloops. Construction of the Desan Lake access road in northeastern B.C. required a large scale exploration program in an area of scarce aggregate resources and difficult access conditions. Terrain evaluation studies for aggregate resources were also undertaken for corridors from Penticton to Vernon, Pemberton to Duffey Lake, Atlin to the B.C. - Yukon border, 70 Mile to 100 Mile House and Highway 5 to Peachland. Geophysical techniques were used on numerous projects to aid in the rapid assessment of prospect areas. In other areas, where aggregate availability is becoming a problem, more expensive techniques such as washing, screening or splitting were applied to produce "spec" gravels.

Pavement Evaluation and Design

Computer design methods were developed this year so that seasonal strength loss factors can be determined easily, using a large data base of historical deflections. This will allow pavement overlay designs to recognize individual strength loss factors and for rapid design recalculation.

Experimental programs were done to evaluate improved methods of stabilizing granular bases to monitor the performance of Tensar reinforcing mesh to control reflective cracking and to investigate the impact of vibroseismic studies carried out by large scale geophysical trucks. In Region 1 (Burnaby) a monitoring program on Geotextile Crack Relief Project (#2238) was continued and a condition survey of primary and secondary A.C. pavement structures in the region was initiated.

Pavement designs were prepared for 54 kilometres of four lane highway in the Coquihalla corridor, several interchange and ancillary connectors to the Fraser River crossing project, and a large number of smaller miscellaneous projects.

Reconstruction of Highway 97 in the Pine Pass area project continued throughout 1984 and included the first large scale use of a highly permeable, open-graded granular and asphalt bound base in the pavement structure as well as recycled and new asphalt concrete surfacing. A section of the new pavement has been fully instrumented for the Canadian Study of Pavement response to different vehicle weights and dimensions for testing in 1985.

New aggregate specifications were prepared for the production of free draining base course aggregate. It is anticipated that pavement life can be significantly extended by using granular base courses constructed to the new specification.

Quality Control and Materials Testing

Quality control and materials inspections continued this year at a high volume. Temporary test facilities, in addition to the existing Regional and Headquarter laboratories, were established at Hope and Merritt, to accommodate the high number of gravel and concrete tests necessary for the Coquihalla highway project. Region 1 Lab (Burnaby) provided soils testing results and materials evaluation for all of the Richmond East-West Freeway, associated structures, and projects connected with the Fraser River bridge crossing. Concrete quality control during construction of the Annacis project has been assigned to local materials inspection firms.

Geotechnical Operations

Drilling Operations

This group completed 5,260 metres of drilling, soil sampling, coring and instrumentation on 81 projects. In addition, they installed 1,228 metres of horizontal drains on three projects and completed 3,962 metres of static cone testing on a further 58 projects. Static cone testing, where used, has resulted in reduced field investigation costs and better soils property data.

Geophysical Section

Use of new computerized software packages for micro-computers resulted in a substantial productivity increase for this section this year. In addition, results were provided with greater accuracy. Electromagnetic conductivity, carried out predominately in the investigation of aggregate resources totalled 453 km (33% increase over last year) of line-run on 95 investigations. Electrical sounding was also utilized to a much greater extent as a cost-effective technique to complement drilling investigations.

Rockwork Section

"Rockslope Assessment Inventories" were continued in Regions 1, 2 and 6 and a system is being implemented to have District Staff record rock fall incidents to identify problem areas needing routine assessment. Special contracts for rockwork were let for Lytton, Trail, Avola, Hope and Boston Bar areas. Scaling by the Branch crew continued on other problem areas.

Special Projects

Special study programs were undertaken this year to develop better construction techniques, produce longer-wearing roads and reduce maintenance costs. These included:

1. Study of permeability and stability of aggregates and, related design guidelines.
2. Development of economic road stabilizer and frost inhibitors.
3. Cost-benefit analyses on various types of retroflective and snow-plowable road markers.
4. Use of "weathering steel" for construction of the Airport Bridge, Prince George.

GEOTECHNICAL HIGHWAY DESIGN INVESTIGATIONS

Name of Project	Location	Type of Investigation
Queensborough Connector	Annacis	Soil survey
N. end of Queensborough Br.	Annacis	Soil survey and foundation design
Richmond Connector	Annacis	Soil survey
Richmond E-W Freeway	Annacis	Soil survey
Hwy. 10 to Hwy. 99	Annacis	Foundation design and monitoring
Hwy. 10 to 64th Ave.	Annacis	Foundation design and monitoring
B.C.R. Relocation	Annacis	Foundation design and monitoring
64th Ave. Stockpile	Annacis	Subsurface investigation and fill design
Hamilton Stockpile	Annacis	Subsurface investigation and fill design
Westminster Stockpile	Annacis	Subsurface investigation and fill design
S. Queensborough Relocation	Annacis	Soil survey
Sooke Road	Annacis	Geotechnical investigation
Dewdney Flats 4-Laning	Annacis	Geotechnical investigation
B.N.R. Relocation	Annacis	Foundation Design and monitoring
84th Ave. Connector	Annacis	Foundation Design and monitoring
Ladner to Portia	Coquihalla Highway	Highway pavement design
Portia to Box Canyon	Coquihalla Highway	Highway pavement design
Box Canyon to Summit	Coquihalla Highway	Highway pavement design
Juliet to Coldwater #3	Coquihalla Highway	Highway pavement design
Coldwater #3 to Larson Hill	Coquihalla Highway	Highway pavement design
Larson Hill to Powerline	Coquihalla Highway	Highway pavement design
Powerline to Glenwalker	Coquihalla Highway	Highway pavement design
Glenwalker to Merritt	Coquihalla Highway	Highway pavement design
Merritt By-pass	Coquihalla Highway	Highway pavement design
Merritt By-pass to Shuta Crk.	Coquihalla Highway	Highway pavement design
80 Mile to 99 Mile	Highway 97	Soil survey and fill design
Cache Creek Airport	Cache Creek	Highway pavement design
Crystal Lake	Highway 97	Soil survey and fill design
Greenville Access	Greenville Access Rd.	Soil survey and foundation design
Kalum Lake Road	Terrace North	Soil Survey and rockwork
Lava Lake-Tseax Junction	Nass Road	Soil survey and foundation design
Cedar River - Sande Lake	Nass Road	Soil survey and foundation design
Sande Lake - Lava Lake	Nass Road	Soil survey and foundation design
Cassiar Access Road	Hwy. 37 to Cassiar	Soil survey and foundation design
40 Mile Realignment	40 Mile Flats	Soil survey foundation & rockwork
Highway 16 Relocation	East of Telkwa	Soil survey and foundation design
Kangaroo Rd. to Connie Rd.	Highway 14	Soil survey and foundation design
Segment 2395, Misty Lake	Highway 19	Soil survey and foundation design
Springhill Road Section	Highway 19	Soil survey and foundation design
Indian Creek Approaches	Highway 4	Subsurface investigation & fill design
T.R. 19, Approaches	Highway 4	Subsurface investigation & fill design
Cedar Creek Approaches	Highway 4	Subsurface investigation & fill design
Hydro Hill West Approaches	Highway 4	Subsurface investigation & fill design
Keogh River Approaches	Highway 19	Subsurface investigation & fill design
Km 35, Eve River North	Highway 19	Soil survey and foundation design
McCullough Rd. Intersection	Highway 19	Soil survey and foundation design
Mistaken Road	Highway 19	Soil survey and foundation design
Island View Interchange	Highway 17	Subsurface investigation & fill design
Wallace Drive Intersection	Durrance Lake Road	Subsurface investigation & fill design
Ware Road	Highway 19	Soil survey and foundation design
Colebrook Rd. and 131A Ave.		Soil survey
64th Avenue Connector	Annacis	Soil survey and foundation design
Annis Road - Hack Brown Road	Highway 1	Soil survey
Annis Road Interchange	Highway 1	Subsurface investigation & fill design
Sumas Mtn. Road Underpass	Highway 1	Subsurface investigation & fill design
Sumas River-Vedder Crossing	Highway 1	Soil survey
Whatcom Interchange	Highway 1	Subsurface investigation & fill design
Knight Street Widening	Richmond E-W	Soil survey and foundation design
Knight St.-Bridgeport Rd.Int.	Richmond E-W	Soil survey
Boston Bar Access Road	Coquihalla	Soil survey
Mary Hill Bypass		Soil survey and foundation design
Alderbridge Way Interchange		Subsurface investigation & fill design
Lions Bay Retaining Wall	Highway 99	Foundation investigation
Bear Lake-Kerry Lake	Highway 97	Soil survey and fill design
Kathleen Creek - West Pine	Highway 97	Soil survey and fill design
New Fraser River Crossing	Highway 16	Soil survey and foundation design
Vanderhoof East CNR Crossing	Highway 16 and #27	Soil survey and foundation design
Desan Oil Access Road	Desan Road	Soil survey and foundation design
Bouchie Lk. Hill Revision	Blackwater Road	Soil survey

Miscellaneous Projects - 32
Total No. of Projects - 101

FOUNDATION INVESTIGATION DESIGN

Name of Project	Location	Type of Investigation
Harvey Creek (3 bridges)	Highway 99	Foundation investigation and design
McConnel Creek Bridge	Chilliwack District	Foundation investigation and design
Cascade Creek Bridge	Chilliwack District	Foundation investigation and design
Sylvester Road	Chilliwack District	Foundation investigation and design
East Channel Bridge	Annacis	Foundation investigation and design
Boundary Road	Annacis	Foundation investigation and design
West Channel Bridge	Annacis	Foundation investigation and design
South Approach–Main Span	Annacis	Foundation investigation and design
B.N.R. Overpass at 72nd Ave.	Annacis	Foundation investigation and design
B.N.R. Overpass at 84th Ave.	Annacis	Foundation investigation and design
Nordel Interchange	Annacis	Foundation investigation and design
Cliveden Interchange	Annacis	Foundation investigation and design
North Approach–Main Span	Annacis	Foundation investigation and design
Highway 10 Interchange	Annacis	Foundation investigation and design
Highway 99 Interchange	Annacis	Foundation investigation and design
Watershed Park Interchange	Annacis	Foundation investigation and design
Nicolum Creek Bridge	Coquihalla	Foundation investigation and design
Peers Creek Bridge	Coquihalla	Foundation investigation and design
St. Cyr Creek Bridge	Mica Access Road	Foundation investigation and design
Fraser R. Crossing	Prince George	Foundation investigation and design
C.N.R. Overhead	Vanderhoof	Foundation investigation and design
Rattlesnake Bridge	Highway 8	Foundation investigation and design
Curnow Bridge	Highway 8	Foundation investigation and design
3 Mile Bridge	Highway 8	Foundation investigation and design
Seymour River Bridge	Seymour Arm	Foundation investigation and design
Falkland–Chase (3 bridges)	Falkland–Chase Rd.	Foundation investigation and design
Big Sand Bridge	Fernie District	Foundation investigation
Betania Bridge	Fernie District	Foundation investigation
Deltaic Creek Bridge	Highway 37	Foundation investigation and design
Taft Creek Bridge	Highway 37	Foundation investigation and design
Wathl Creek Bridge	Highway 25	Foundation investigation and design
Little Cedar River Bridge	Nass Road	Foundation investigation and design
Hadenschild Creek Bridge	Nass Road	Foundation investigation and design
Liz Creek Bridge	Highway 37	Foundation investigation and design
Beaverpond Creek Bridge	Highway 37	Foundation investigation and design
Alger Creek Bridge	Highway 37	Foundation investigation and design
Toboggan Creek Bridge	Region 5	Foundation investigation and design
Ralph River Bridge	Region 6	Foundation investigation
Henshaw Creek Bridge	Region 6	Foundation investigation
Thelwood Creek Bridge	Region 6	Foundation investigation
Shawyer Bridge	Region 6	Foundation investigation
Dellmar Bridge	Region 6	Foundation investigation
Seven Hills Bridge	Region 6	Foundation investigation
Keogh River Bridge	Region 6	Foundation investigation
Harvie Bridge	Region 6	Foundation investigation
Dean River Bridge	Highway 20	Foundation investigation and design
Nautley River Bridge	Stella Road	Foundation investigation and design
Stellako River Bridge	Francois Lake Road	Foundation investigation and design
Vanderhoof CNR Overpass	Highways 16 and 27	Foundation investigation
Kocho River Bridge	Dease Road	Foundation investigation
Angusmac Creek #1	Highway 97	Foundation investigation
Angusmac Creek #2	Highway 97	Foundation investigation
Angusmac Creek #3	Highway 97	Foundation investigation
Angusmac Creek #4	Highway 97	Foundation investigation
Angusmac Creek #5	Highway 97	Foundation investigation
Red Rocky Creek	Highway 97	Foundation investigation
Loomis Creek	Highway 97	Foundation investigation
Quizzie Creek	Highway 97	Foundation investigation
McCabe Creek	Highway 97	Foundation investigation
Edam Bridge		Foundation investigation
Shawnigan Creek Bridge	Nanaimo District	Foundation investigation
Highway 4 – T.R. 17	Highway 4	Foundation investigation
Ellis Creek Bridge	Nanaimo District	Foundation investigation
Kerr Creek Bridge	Port Alberni District	Foundation investigation

Miscellaneous Projects – 22
Total No. of Projects – 86

STABILITY INVESTIGATIONS

Name of Project	Location	Type of Investigation
Oyama Slide	Highway 97	Slope stabilization
Last Spike Instability	Highway 1	Fill slope instability
Vaseux Lake Rockfall	Highway 97	Slope stabilization
11 km West of Keremeos	Hope-Princeton	Slope stabilization
Beaton Road Slide	Highway 1	Slope stabilization
Powers Creek Fill Failure	Highway 97	Fill foundation instability
Mara Lake Slide	Sicamous-Grindrod	Slope stabilization
Jackass Mountain	Highway 1	Fill slope instability
Turtle Road Fill Instability	Highway 97	Fill foundation instability
Brent Road Instability	Highway 97	Slope stabilization
Okan. Park Slide-South	Highway 97	Slope stabilization
Pike Road Fill	Pike Road	Fill foundation instability
50 km South of Merritt	Highway 8	Fill slope instability
Peachy Hill	Highway 1	Foundation instability
Highway 24 - Little Fort	Highway 24	Fill slope instability
Crystal Lake	Highway 97	Foundation instability
Thuya Creek	Highway 5	Fill foundation instability
Preacher Hill Slide	Highway 5	Fill foundation instability
Jade Mountain	Highway 1	Slope stabilization
Cache Creek Airport	Cache Creek	Fill foundation instability
Bridge Lake Wells	Highway 24	Soil and water survey
Sallus Creek Fill	Highway 12A	Fill foundation instability
Nicola Rock Bluffs	Highway 5	Slope stabilization
Terzaghi Dam Portal Rockfall	Highway 5	Slope stabilization
Aberdeen Fill Failure	Kamloops	Fill foundation stabilization
Kruger Hill-Rock Instability	Highway 97	Slope stabilization
Summerland South Slide	Highway 97	Slope stabilization
Cherry Crk. S. Slide	Highway 1	Slope stabilization
Rockfall-N, Spences Bridge	Highway 1	Slope stabilization
Westbank Storm Sewer	Highway 97	Foundation instability
Secrest Pit	Highway 97	Slope stabilization
Rockslope Design - I.R. #1	Highway 5	Slope stabilization
Koocanusa Lake	Region 3	Slope stabilization
Winlaw Slide	Region 3	Slide monitoring
Argenta Slide	Region 3	Slide monitoring
Burton Slides	Region 3	Slide monitoring
7 Mile Dam	Region 3	Slope stabilization
Garrity Creek Slide	Region 3	Slope stabilization
Holdich Creek Slide	Region 3	Slide monitoring
Sparwood - Elk Valley	Region 3	Fill foundation instability
Norwegian Creek Slide	Region 3	Slope stabilization
Hamshaw Slide	Region 3	Fill instability-debris torrent
Donald Bridge	Region 3	Fill foundation instability
10 Mile Hill	Region 3	Fill slope instability
Stanley Slide	Terrace District	Slope stabilization
Francois Lake Slide	Burns Lake District	Fill foundation instability
Hospital Road Slide	Burns Lake District	Fill foundation instability
Highway 16 Relocation-Telkwa	Smithers District	Fill foundation instability
Nash Slide	Smithers District	Slope stabilization
Knockholt Slide	Burns Lake District	Slope stabilization
Highway 37	Smithers District	Fill foundation instability
Kelly Road Extension	Region 6	Slide monitoring
Western Mines Road	Region 6	Slope stabilization - bin walls
Attachie Slide	Region 4	Slide Monitoring
Vernon-Bailey Road	Highway 97	Rock slope instability
Poplar Point Slide	Kelowna	Rock/soil instability
Aberdeen Interchange	Highways 1 and 5	Soil slope instability
Boucherie Road	Highway 97	Soil foundation instability
Nechako West Bridge	Highway 27	Abutment slide monitoring
Avola Slide	Highway 5	Rock slope instability
Purden Lake Slide	Highway 16	Rock slope instability
Terrachek Fill	Upper Fraser Road	Fill instability
520 Road Slide	Road 520	Fill instability
26 Mile Slide	Highway 29	Fill instability
Apsassin Slide	Road 101	Soil slope instability
Fish Creek Hill Slide	Road 101	Fill instability
Sta. 262 Slide	Highway 29	Cutslope instability
Summit Lake Slide 1	Highway 97	Cutslope instability

STABILITY INVESTIGATIONS (continued)

Name of Project	Location	Type of Investigation
Summit Lake Slide 2	Highway 97	Fill slope instability
Maroon Creek Slide	Terrace District	Slope instability and monitoring
Son of Stanley Slide	Terrace District	Slope instability and monitoring
Mile 43 Slide	Highway 37	Slope instability and monitoring
Copper River Bank Erosion	Terrace District	Slope instability
Mark Road Bank Erosion	Terrace District	Slope instability

Miscellaneous Projects - 40
Total No. of Projects -114

AGGREGATE INVESTIGATIONS

Investigation Group	Gravel Pits	Quarries	Area Studies	Total Projects
Region 1	57	2	4	63
Region 2	78	5	-	83
Region 3	35	2	4	40
Region 4	69	5	-	98
Region 5	74	3	3	80
Region 6	24	-	-	24
Terrain Eval.-Hdqts.	-	-	5	5
TOTALS	337	17	16	393

PAVEMENT EVALUATION

Investigation Group	No. of Designs	Distance (km)	Control Sections	Tests/ Year
Region 1	16	67	82	6
Region 2	9	126	27	8
Region 3	10	119	47	14
Region 4	18	810	37	11
Region 5	63	163	81	4
Region 6	12	70	33	5
TOTALS	128	1355	307	48

QUALITY CONTROL AND MATERIALS TESTING

Investigation Group	Concrete Inspections	Cylinders Tested	Timber (FBM) Inspected	Crushing Projects	Lab Tests
Region 1	209	1,519	802,562	5	12,593
Region 2	150	1,255	140,200	6	2,798
Region 3	109	222	140,200	7	1,286
Region 4	112	357	130,683	2	5,248
Region 5	17	454	32,784	-	3,307
Region 6	23	191	117,817	10	3,603
Hdqts. Lab*	-	123	-	-	5,977
TOTALS	620	4,121	1,203,046	30	34,812

* This lab was also involved in the testing of geotextiles, traffic cones, paints, thermoplastics, rubbers, resins and the repair of regional equipment.

GEOTECHNICAL OPERATIONS

Drilling Section:	Regions 1	2	3	4	5	6	Totals
No. of Projects	52	7	4	6	12		81
Diamond Holes (m)	4,901	188	201	559	411		6,260
Horizontal Drain Sites	1	1	1				3
Drains (m)	357	298	573				1,228
Cone Penetration Project	47			11			58
Cone Test Depths (m)	3,749			213			3,962
Piezometers	347						347
Slope Indicators	44		2				46
Deep Settlement Plates	20						20
Swedish Vane Shear (m)	75.7	32.7					108.4

Geophysical Section:	Regions 1	2	3	4	5	6	Totals
No. of Projects	30	28	5	31	7	30	131
No. of Seismic Surveys	15	1	1	1	1	3	22
Distance of Survey (km)	7.7	3.2		0.8	0.8	3	14
No. of Seismic Lines	104	42	2	17	25	25	215
Electromagnetic Surveys	6	26	3	29	6	25	95
Distance of Survey (km)	10.4	122.7	10.7	175.1	28.7	105	452.9
Electrical Soundings	22	18	15	52		68	175
Blast Monitoring Project	9	1	1	1		2	14

Rockwork Section:	Regions 1	2	3	4	5	6	Totals
Scaling Man-Days	216	178	200	18		8	620
Rock Removed (m^3)	1,791	1,476	1,659	149		30	5,105
Drill. and Blast. (m^3)	2,426	808	727	81			4,042
Rock Bolts (m)	7	12		10			29
Slope Mesh (m^2)	422						422
Slopes Monitored	7	3	1				11

REPORT OF THE DIRECTOR OF BRIDGE ENGINEERING

L.C. Johnson, P. Eng.

By the standard that 1983/84 was an extremely busy year, 1984/85 was hectic. Early in the year, as the pace increased on the Annacis Complex, the Government announced the Coquihalla Project. Bridge demands relating to these two projects plus those in to the normal bridge program severely taxed the branch during the year.

Because of the urgency for the Coquihalla, the decision was made to have the bridges designed by consultants with construction supervision by branch personnel. Similarly construction supervision on all minor structures in the Annacis Complex was to be undertaken by branch personnel who were already responsible for that task on the approaches to the main span. As a result the complement of field and plant staff was increased by hiring auxiliaries, the Consultant Liaison Engineer was temporarily appointed to the position of Bridge Construction Engineer (Annacis) and a temporary assistant appointed for him.

Bridge construction costs remained low as there was keen competition for contracts.

Reports of the division within the branch follow.

BRIDGE DESIGN

Bridge design during the year concentrated on the Annacis System and the Coquihalla Highway, including the upgrading to freeway standards of the Trans-Canada Highway between Abbotsford and Hope. Regional designs were consequently limited in number. The major designs in progress and completed during the year are listed below.

	Design By *	Design In Progress	Design Completed	Tenders Called
Annacis Complex				
North Approach to Main Span	M		X	X
South Approach to Main Span	M		X	X
Annacis Channel East Bridge	C		X	X
Queensborough Bridge Modifications	C		X	X
Cliveden Avenue Underpass	C		X	X
Nordel Underpass	C		X	
84th Avenue BNR Overhead	C		X	
72nd Avenue BNR Overhead	C		X	X
64th Avenue BNR Overhead	C		X	X
64th Avenue Underpass	C		X	X
Boundary Road Underpass	M	X		
Highway #10 Underpass	C	X		
Highway #10 BNR Overhead	C	X		
Highway #10 Access Ramp	C	X		
Watershed Park Overpass	C	X		
Jacombs Road Underpass	M	X		
Trans Canada Highway				
Floods Underpass	C		X	X
Silverhope Underpass	C		X	X
Silverhope Creek Bridge	C		X	X
Jones Hill Underpass	C		X	X
Aberdeen Underpass	C		X	X
Whatcom Road Underpass	C		X	
Popkum Road Underpass	C	X		
Coquihalla Highway				
Hope Overpass	C		X	X
Thacker Creek Overpass	C		X	X
Two Mile Creek Bridge	C		X	X
Alexander Creek Bridge	C		X	X
Othello Underpass	C		X	X
Nicolum Creek Bridge	C		X	X
Peers Bridge	C		X	X
Deneau Creek Bridge	C		X	X
Jessica Bridge	C		X	X
Dewdney Creek Bridge	C		X	X
Carolin Bridge	C		X	X

*	M	Ministry
	C	Contractor

	Design By *	Design In Progress	Design Completed	Tenders Called
Coquihalla Highway (cont'd)				
Ladner Creek Bridge	C		X	X
Shylock Underpass	C		X	
Portia Bridge	C		X	X
Great Bear Snow Shed	C		X	
Ottomite South Bridge	C	X		
Ottomite North Bridge	C	X		
Dry Gulch Bridge	C		X	X
Coquihalla Lakes Underpass	C		X	X
Henning Bridge	C		X	X
Juliet Creek Bridge	C		X	X
Bottletop Bridge	C		X	X
Murray Bridge	C		X	X
Brook Bridge	C		X	X
Brodie Bridge	C		X	X
Kingsvale Bridge	C		X	X
Kingsvale Overhead	C		X	X
Coldwater Underpass	C		X	X
Nicola River Bridge	C		X	X
Nicola Underpass	C		X	X
Highway 8				
Curnow Bridge	M		X	X
Rattlesnake Bridge	M		X	X
Three Mile Bridge	M		X	X
Garibaldi Highway				
Newman Creek Bridge	M		X	
Harvey Creek Bridge	M		X	
Magnesia Creek Bridge	M		X	X
Region 1 - Miscellaneous				
Coquitlam River Bridge	M		X	X
Maryhill Bypass Overhead	C		X	X
Cascade Bridge	M		X	X
Carratt Creek Bridge	M		X	X
Berkey Creek Bridge	M		X	
Region 2 - Miscellaneous				
Pritchard Bridge	M		X	X
Nicola Farm Bridge	M		X	
Region 3 - Miscellaneous				
Crawford Creek Bridge	M		X	
St. Cyr Creek Bridge	M	X		
Region 4 - Miscellaneous				
Six Mile Bridge Pier Modifications	M		X	X
Vanderhoof Overhead	M	X		
Airport Hill Bridge (over Fraser River)	M	X		
Region 6 - Miscellaneous				
Ralph River Bridge	M		X	
Henshaw Creek Bridge	M		X	
Thelwood Creek Bridge	M		X	

* M Ministry
C Contractor

BRIDGE CONSTRUCTION

(excluding Annacis Island Crossing Complex)

During the 1984–85 fiscal year, 30 new vehicular bridges were completed, three bridges were widened and a sidewalk was added to one bridge. Major repairs to Okanagan Lake Bridge were finished. On March 31, 1985, 32 bridges were under construction, Pattullo Bridge was being retrofitted and tenders had been received for the building of three other bridges.

An Acrow superstructure was assembled on shore and then moved into position over the river by both pushing and pulling to complete Fort Nelson River Bridge in the spring of 1984. These operations were carried out by Ministry personnel. This bridge eliminated a ferry/ice bridge link on the Fort Nelson–Fort Simpson Highway, which was officially opened on June 23.

The deck slab for the Kamloops Bridge over the North Thompson River was cast in five weeks during April and May. This bridge, together with two nearby structures and the highway connection to Highway 5, was officially opened on September 17.

The repair of the new anchors for Okanagan Lake Bridge, which were found to be defective after they were installed, has been completed.

The substructure of Boston Bar Bridge, which will replace the aerial ferry now in service over the Fraser River, was nearly completed. Preparations were underway for erection of the steel superstructure.

Work continues on the replacement of bearings and the repair of cracked girders and piers on Pattullo Bridge.

The Coquihalla Project was announced in May and called for the construction of a section of four–lane freeway from Floods to Merritt generally following the Coquihalla and Coldwater Rivers. This project is a major step in the provision of a four–lane freeway from Vancouver to Kamloops. Involved in the project would be 30 bridges and one snow shed. By March 31, 1985, 22 bridge projects related to this project, involving 28 bridges, had been awarded with a total value of about $48 million. The substructure of Dry Gulch Bridge, the largest bridge on this route, was substantially completed during the winter, and fabrication of the 175 metre steel arch span was in hand.

Regrettably there was one loss of life this year resulting from the overturning of a boat being used adjacent to the center pier at Boston Bar Bridge.

During the fiscal year some 1,150 tonnes of structural steel was fabricated and erected. 7,674 metres of prestressed concrete I–beams were produced, and 7,350 metres of prestressed concrete box stringers. The prestressed concrete plants also fabricated culverts, grillage beams and energy dissipators for the Garibaldi Highway stream control projects.

The bridge resurfacing crew overlaid 12 bridge decks with a total area of 5600 square metres.

BRIDGES COMPLETED 1984/85

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2735	Greenville Bridge	Greenville Access Road	Atlin	A three span, 240 m long steel plate girder bridge on a pile supported reinforced concrete concrete substructure with a 9.3 m wide reinforced concrete deck.
2739	North Star Overpass	Cariboo Highway	Cariboo	Two reinforced concrete abutments supporting a 26 m precast concrete span with a 22 m wide reinforced concrete deck.
2818	Old Yale Road Underpass	Highway 11	Central Fraser Valley	A reinforced concrete substructure of two piers and two abutments supporting a three span 62.5 m long steel stringer superstructure with a reinforced concrete deck consisting of a 14.4 m roadway and two 2-metre sidewalks.
2730	Gibsons Road Underpass	Trans-Canada Highway	Chilliwack	A 37.2 m long precast concrete stringer span two reinforced concrete abutments and reinforced concrete deck nine metres wide with a two metre sidewalk. The contract includes approach and drainage work.
1332	Koksilah River Bridge	Trans-Canada Highway	Cowichan-Malahat	A reinforced concrete substructure of two pipe pile founded piers and two abutments supporting two spans of 14.6 m and on 27.4 m span of prestressed concrete box stringers and a concrete overlay deck 25 m wide with a roadway of 22.5 m and a 1.8 m sidewalk.
1473	Kanaka Creek Bridge	Lougheed Highway	Dewdney	Replacement of a two lane, 33.5 m long timber trestle with a steel pile supported reinforced concrete substructure, three 29 m precast concrete box stringer spans with a concrete deck consisting of an 25.6 m wide roadway and two 2.1 m sidewalks.
2736	Mission Overhead	Abbotsford-Mission Hwy. 11	Dewdney	A reinforced concrete substructure consisting of two pile supported piers and two abutments supporting a three span 56.3 m long precast stringer superstructure with a reinforced concrete deck 21.4 m wide.
1172	Kirby Creek Bridge	West Coast Highway	Esquimalt- Port Renfrew	A reinforced concrete substructure of one pipe pile founded pier and two abutments supporting two 18.4 m spans of prestressed concrete stringers and a reinforced concrete deck 12.8 m with a 10.4 m roadway and a 1.5 m wide sidewalk.

BRIDGES COMPLETED 1984/85 (continued)

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2810	Kamloops North Thompson River Bridge	Highway 5 to Brockelhurst	Kamloops	A pile founded reinforced concrete substructure of 14 piers and two abutments supporting a 15 span, 451 m precast concrete stringer bridge with a 19 m wide reinforced concrete deck with one sidewalk.
2749	Cape Horn Flyover	Lougheed Highway 7	Maillardville-Coquitlam	A reinforced concrete substructure of two H-pile supported piers and two abutments with a 54 m long superstructure of prestressed concrete stringers and a 7.5 m wide reinforced concrete deck.
2680	Cranberry River Bridge 1	Kitwanga Highway 37	Meziadin-Skeena	A reinforced concrete substructure of one pile founded pier and two abutments supporting a two span prestressed concrete superstructure 54 m long and a reinforced concrete deck 10.9 m wide with a 9.7 m roadway.
2681	Cranberry River Bridge 2	Kitwanga Highway 37	Meziadin-Skeena	A reinforced concrete substructure of one pile founded abutment and pier and one rock founded abutment supporting a 9.4 m cast-in-place reinforced concrete span and one 32.9 m prestressed concrete span, both with a reinforced concrete deck 9.4 m wide with a 9.7 m roadway.
1398	Slocan Park Bridge	Slocan Valley West Road	Nelson-Creston	Two extended steel pipe pile piers and two reinforced concrete abutments supporting a 52.6 m long steel truss relocated from Taghum and two 9.2 m long precast concrete box girder spans. The deck consists of a steel grid deck on the truss span and concrete overlay on the box spans. Deck width is six metres.
0944	Creston-Porthill Bridge	Creston-Rykerts Highway	Nelson-Creston	Demolition of an existing timber Howe truss and construction of a pile founded reinforced concrete substructure with four spans of precast concrete stringer carrying a 75.3 m long by 12 m wide reinforced concrete deck in including one sidewalk.
0780	Passmore Bridge	Slocan Valley West Road	Nelson-Creston	Two extended steel pipe pile piers and two reinforced concrete abutments carrying a 52.5 m steel truss relocated from Taghum and two 9.2 m long precast concrete box girder spans. The deck consists of a steel grid deck on the truss span and concrete overlay on the box spans. Deck width is six metres with a sidewalk outside the truss.

BRIDGES COMPLETED 1984/85 (continued)

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
7321	Buttle Narrows Bridge	Highway 28	North Island	A reinforced concrete substructure of two pipe pile supported piers and two abutments supporting a three span prestressed concrete superstructure 97 m long and an 11 m wide reinforced concrete deck.
2607	Fort Nelson River Bridge	Fort Nelson–Fort Simpson Highway	North Peace River	Seven reinforced concrete diaphragmed and capped extended steel pipe pile piers and two pile founded reinforced concrete footings supporting an eight span 1,400 ft. long Acrow Bridge.
2282	Seymour River Bridge	Mount Seymour Parkway	North Vancouver–Seymour	A three span bridge 65 m long with a 17.2 m wide roadway and two sidewalks constructed of reinforced concrete supported by precast concrete stringers on two steel pipe pile piers with reinforced concrete caps and two reinforced concrete abutments founded on spread footings.
2815	Patricia Blvd. Bridge	Yellowhead Highway 16	Pr. George South	A three span 58 m long bridge consisting of steel H-pile founded reinforced concrete piers, reinforced concrete abutments supporting precast concrete stringers and a 15 m wide reinforced concrete deck.
2728	Interurban Overpass	McKenzie Avenue	Saanich & Islands	A reinforced concrete substructure of two H-pile founded piers and abutments supporting three spans, 44.8 m, 49.6 m, and 30.5 m long of continuous steel girders and a reinforced concrete deck 19.8 m wide consisting of a 15.8 m roadway and two 1 m sidewalks.
2734	Swan Creek Bridge	McKenzie Avenue	Saanich & Islands	Two reinforced earth approaches supporting reinforced concrete abutments and a 21.9 m prestressed concrete stringer span with a 23.4 m wide concrete deck consisting of two 1.8 m wide sidewalks.
0311	Enderby Bridge	Mable Lake Road	Shuswap–Revelstoke	Remove existing timber bridge, construct approaches, and a reinforced concrete substructure consisting of four pipe pile piers and two abutments supporting a 213 m continuous steel girder bridge with a reinforced concrete deck 8.5 m wide and two 2 m wide sidewalks.

BRIDGE IMPROVEMENTS COMPLETED 1984/85

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
0423	Wilkinson Bridge	Trans-Canada Highway	Cowichan-Malahat	Widen the sidewalk from one m to 1.9 m and add a new traffic barrier to a 66 m steel truss and steel stringer bridge on a reinforced concrete substructure.
1628	Cape Horn Overpass 2	Lougheed Highway 2	Maillardville-Coquitlam	A four span bridge 67 m long widened from 15 to 25 m. The widening consists of a concrete overlay on prestressed concrete box stringers supported by steel H-pile founded reinforced concrete abutments and piers.
1456	Okanagan Lake Bridge	Okanagan Highway 97	Okanagan South	Supply and replace concrete anchors and anchor cables.
0904	Walcott Footbridge	Walcott Road	Omineca	Replacement of two existing wood towers by steel towers.
1457	Charles Creek Bridge	Garibaldi Highway	West Vancouver-Howe Sound	Repairs to debris torrent damage consisting of removal of damaged deck and one precast concrete stringer and placing two precast concrete box stringer with an asphalt wearing surface.
1158	Bonaparte River Bridge 1	Trans-Canada Highway	Yale-Lillooet	Widening a 22 m single span steel girder bridge supported by reinforced concrete abutments on timber piling, from one m to 22 m including two sidewalks.

BRIDGE IMPROVEMENTS UNDER CONSTRUCTION - 1984/85

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2264	Six Mile Bridge	North Thompson Highway	Kamloops	Replacement of two existing pier columns by two post-tensioned concrete pier columns on steel H-piles.
0933	Pattullo Bridge	King George Highway	New Westminster-Surrey	Retrofitting to replace bearings at four bents of the south approach.
1553	Queensborough Bridge	Queensborough Connector	New Westminster	The project consists of demolishing six spans on the south end and replacing them with four spans curved to the new roadway alignment. The new spans are prestressed concrete I-beams, which will match the existing cast-in-place concrete beams. Also included in the works is the placement of an overlay on the new and existing deck and the refurbishing of all expansion joints.

BRIDGES CONSTRUCTED 1984/85

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2740	Penticton Parkway CPR. Underpass	Penticton Parkway Highway 97	Boundary-Similkameen	A 23 m single span steel girder bridge founded on timber pile supported reinforced concrete abutments.
6037	Cascade Creek Bridge	Sylvester Road	Dewdney	A 42 m long three span prestressed box stringer bridge supported by piers and abutments on steel pipe piles and having a 10 m wide deck.
8070	Carratt Creek Bridge	Carratt Road	Dewdney	A 14 m long single span steel stringer bridge with a 6.5 m wide timber deck and abutments on H-piles.
2813	Kamloops Junction O/H	Highway 5 to Brockelhurst	Kamloops	A 54 m long three span prestressed concrete box girder bridge with two 9.2 m wide roadways and one sidewalk on a reinforced concrete substructure consisting of two abutments on spread footings and two piers on steel H-piles.
2813	Kootenay Road Underpass	Highway 5 to Brockelhurst	Kamloops	A 69 m long prestressed concrete stringer bridge with a 9.8 m wide reinforced concrete deck and one sidewalk supported by a reinforced concrete substructure consisting of two abutments on spread footings and two piers on steel H-piles.
2804	Burns Lake Overhead	Yellowhead Highway 16	Omineca	A 61 m long three span prestressed concrete stringer bridge with a 12.6 m wide reinforced concrete deck including two sidewalks all supported by a reinforced concrete substructure consisting of two abutments on spread footings and two piers on steel H-piles.
2352	Tyee O/H	Yellowhead Highway 16	Prince Rupert	A 96 m long steel girder bridge having spans of 32 m, 40 m, and 23 m with a reinforced concrete deck all supported by a reinforced concrete substructure consisting of two abutments and one pier on spread footings and one pier on steel pipe piles.
1446	Montizambert Creek Bridge	Garibaldi Highway 99	West Vancouver-Howe Sound	A 82 m long, two span continuous steel plate girder bridge supported by one abutment and one pier on spread footings and one pier on piles and having a 20 m wide deck.

BRIDGES UNDER CONSTRUCTION 1984/85

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2577	Silverhope Creek Bridge	Trans-Canada Highway 1	Chilliwack	Twin 105 m long, two span continuous steel plate girder bridges with 10.2 m wide concrete decks, each supported by a concrete pier and concrete abutments all on steel pipe piles.
2692	Peers Bridge	Coquihalla Highway	Chilliwack	A 97 m long, three span bridge consisting of a post-tensioned segmental precast concrete stringer main span and two prestressed concrete stringer side spans. The concrete deck is 22 m wide. The substructure consists of two concrete piers and two abutments all on steel pipe piles.
2835	Portia Bridge	Coquihalla Highway	Chilliwack	A 122 m long, four span prestressed concrete girder bridge with a 21.6 m wide concrete deck. The substructure consists of two concrete abutments, a concrete pier on spread footings, a concrete pier on rock, and an extended steel pipe pile pier.
2822	72nd Avenue BNR O/H	72nd Avenue	Delta	A 90 m long three span continuous prestressed concrete I-beam girder bridge with a bridge deck width, including one sidewalk of 18.4 m. The substructures are supported on piled foundation for one abutment and pier and on spread footing for the remaining pier and abutment.
	64th Avenue Underpass	Annacis Highway	Delta	A 54 m long double span structure which consists of prestressed concrete box girders, a reinforced deck overlay supported by 9.2 m high U-shaped abutment walls on spread footings. The centre pier is a three column and cap arrangement also on spread footings. The deck width including sidewalk is 14.8 m.
2758	64th Avenue BNR O/H	64th Avenue	Delta	A 50 m long three span prestressed box beam bridge with a deck width of 18 m. The substructure consists of shallow abutments founded in fill and two piers also on spread footings.
2753	Annacis South Approach	Annacis Highway	Delta	A 819 m long approach structure comprised of 20 simple spans. The structure consists of a reinforced concrete deck which varies in width from about 35.7 m to 26.2 m and is supported on 2.3 m high prestressed concrete I-girders. The substructures are supported on piled footings from which twin concrete columns topped with a concrete cap rise to as much as 39 m above ground.

BRIDGES UNDER CONSTRUCTION 1984/85 (continued)

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2762	Cliveden Avenue U/P	Annacis Highway	New Westminster	A 71 m long two span structure supported on a piled foundation. The superstructure consists of a 19.4 m wide deck, which includes sidewalks on both sides and prestressed concrete I girders.
2760	Annacis Channel Movable Bridge	Queensborough Loop Road	New Westminster	A five fixed span structure coupled with a bobtail swing span for a total length of 205.8 m. The structure provides both a rail and a roadway link to Annacis Island. The roadway superstructure consists of concrete I-beams on the approach spans and steel I-girders on the swing span. The deck width is 12.6 m including the sidewalks. The railway structure is constructed using steel I-girders and floorbeams. The substructures are mass concrete caps 20 m long, six m high, and about two m wide supported by prestressed concrete piles.
2763	Annacis Channel East Bridge	Annacis Highway	New Westminster-Richmond	A 410 m long nine span concrete I-beam bridge on a 240 m radius curved alignment. The superstructure consists of a reinforced concrete deck with a width of about 27.3 m and concrete I-girders which vary in depth from 2.75 m to 1.73 m. A combination of post-tensioning and prestressing is used to construct the longest concrete girder spans used in the province to-date. The substructure consists of six land pier units which are each made up of five 1524 diameter concrete filled steel pipe piles topped with a two m deep concrete cap and two river piers which are massive concrete structures supported on a raft of 910 millimeter diameter piles and designed to withstand ship collision.
2753	Annacis North Approach	Annacis Highway	New Westminster	A 775 m long approach structure comprised of 20 simple spans and a four span, 94.5 m long exit ramp. The superstructure and substructure units for the north approach structure are similar to the Annacis South Approach. The ramp structure has a deck width of 6.3 m and 1.4 m deep prestressed concrete I-beams supported by single column piers on piled foundations.

BRIDGES UNDER CONSTRUCTION 1984/85 (continued)

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2753	Annacis Main Span	Annacis Highway	New Westminster/ Richmond	The Annacis Bridge is a cable-stayed bridge with an overall length of 930.5 m and a deck width of 26.2 m. The length is divided into five spans, a central main span of 465 m, two side spans of 182.75 m and two transition spans of 50 m each. The superstructure is constructed using two exterior two m steel I-beams which are coupled by floor beams at four m on centre. Concrete precast panels with cast-in-place concrete in-fill strips and a high density concrete overlay form the deck structure. The superstructure is supported by 192 wire-rope cables which are splayed from the tower piers and attached to the exterior girders. The tower is comprised of two hollow legs with a variable cross-section and a constant wall thickness which extend 158.8 m above the ground. The tower legs are joined with eight and ten m deep cross struts above and below the deck surface. The piled foundation for the north tower has 910 diameter pipe piles extending 86 m below the footing with the south tower founded on relatively short H-pile sections. The side piers are twin reinforced concrete columns which are topped with a cap and tied with a strut. The side piers are supported on piled foundations.
0297	Pritchard Bridge	Pinantan Road	Shuswap-Revelstoke	A 358 m long timber trestle bridge with prestressed concrete deck panels and a prestressed concrete box stringer main span.
1452	Magnesia Creek Bridge	Garibaldi Highway 99	West Vancouver-Howe Sound	A 51 m long single span, steel plate girder bridge with a 23.2 m wide reinforced concrete deck and supported by two abutments on H-piles. Channelisation work is involved.
2716	Floods Underpass	Trans-Canada Highway 1	Yale-Lillooet	A 60 m long, two span continuous post-tensioned precast concrete stringer bridge with an 11 m wide reinforced concrete deck and supported by concrete pier and abutments on spread footings.
2617	Silverhope Underpass	Trans-Canada Highway 1	Yale-Lillooet	A 220 m long, five span continuous steel plate girder bridge with an 11 m wide concrete deck and supported by concrete piers and abutments on spread footings.

BRIDGES UNDER CONSTRUCTION 1984/85 (continued)

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2618	Tomberry Road Bridge	Tomberry Road	Yale-Lillooet	A 71 m long three span bridge. The 45 m post-tensioned segmental precast concrete stringer main span and two precast concrete box stringer side spans support an 8.4 m wide concrete deck. The concrete substructure consists of two piers on pipe piles and two abutments on H-piles.
2645	Hope Overpass	Coquihalla Highway	Yale-Lillooet	Two four span prestressed concrete stringer bridges 146 m long and 150 m long, each with an 11 m wide concrete deck including two concrete piers on H-piles and one concrete pier and two abutments on spread footings.
2826	Thacker Creek Overpass	Coquihalla Highway	Yale-Lillooet	Twin 66 m long three span continuous post-tensioned precast concrete stringer bridges each with an 11 m wide deck and supported by concrete piers and abutments on spread footings.
2828	Nicolum Creek	Coquihalla Highway	Yale-Lillooet	A 178 m three span continuous steel trapezoidal box girder bridge with a 25 m wide concrete deck. The substructure consists of concrete piers and abutments on spread footings.
2775	Deneau Creek Bridge	Coquihalla Highway	Yale-Lillooet	A 36.4 m long single span prestressed concrete girder bridge with a 21 m wide deck and concrete abutments on spread footings.
2724	Jessica Bridge	Coquihalla Highway	Yale-Lillooet	Twin 85.4 m long three span steel plate girder bridges each with a concrete deck and two piers on large diameter steel pipe piles and concrete abutments on spread footings.
2748	Dewdney Bridge	Coquihalla Highway	Yale-Lillooet	A 35.5 m long single span prestress concrete girder bridge with a 25 m wide concrete deck and concrete abutments on large diameter steel pipe piles.
2767	Carolin Bridge	Coquihalla Highway	Yale-Lillooet	A 71.8 m long two span steel plate girder bridge with a 25.3 m wide concrete deck, a pier and an abutment on steel pipe piles and an abutment on a spread footing.
2853	Ladner Creek Bridge	Coquihalla Highway	Yale-Lillooet	A 260 m long six span steel plate girder bridge with a 21.8 m wide deck and five twin column tall concrete piers and two abutments all on spread footings.

BRIDGES UNDER CONSTRUCTION 1984/85 (continued)

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2827	Dry Gulch Bridge	Coquihalla Highway	Yale-Lillooet	A 365 m long bridge with a 175 m steel twin box girder arch main span and eight steel side spans with steel tower bents. The concrete deck is 22 m wide and the foundation is rock.
2831	Coquihalla Lake Underpass	Coquihalla Highway	Yale-Lillooet	A 90 m long two span continuous steel plate girder bridge with an 11 m wide concrete deck and a concrete substructure of one pier and two abutments all on spread footings.
2830	Henning Bridge	Coquihalla Highway	Yale-Lillooet	Two 45 m long parallel three span prestressed stringer bridges supported by extended pipe pile piers and spread footing abutments and having concrete decks.
2836	Juliet Creek Bridge	Coquihalla Highway	Yale-Lillooet	Twin 87 m long three span prestressed concrete girder bridges supported on extended steel pipe pile piers and spread footing abutments, and having 11 m wide concrete decks.
2837	Bottletop Bridge	Coquihalla Highway	Yale-Lillooet	Twin 83 m long three span prestressed concrete girder bridges supported on extended steel pipe pile piers and spread footing abutments, and have 11 m wide concrete decks.
2838	Murray Bridge	Coquihalla Highway	Yale-Lillooet	Twin 68 m long three span prestressed concrete girder bridges supported on extended steel pipe pile piers and spread footing abutments and having 11 m wide concrete decks.
2840	Brodie Bridge	Coquihalla Highway	Yale-Lillooet	Twin 73 m three span prestressed concrete girder bridges supported on extended steel pipe pile piers and spread footing abutments and having 11 m wide concrete decks.
2841	Kingsvale Bridge	Coquihalla Highway	Yale-Lillooet	A 78 m long three span precast concrete girder bridge supported on extended steel pipe pile piers and spread footing abutments and having a 29 m wide concrete deck.
2845	Kingsvale Overhead	Coquihalla Highway	Yale-Lillooet	Twin 98 m long three span prestressed concrete girder bridges each supported by concrete piers and abutments on spread footings and each having a 13.7 m wide deck.

BRIDGES UNDER CONSTRUCTION 1984/85 (continued)

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2842	Coldwater Underpass	Coquihalla Highway	Yale-Lillooet	A 98 m long two span prestressed concrete girder bridge supported by a concrete pier and concrete abutments on spread footings and having a two-lane concrete deck.
2843	Nicola River Bridge	Coquihalla Highway	Yale-Lillooet	Twin 102 m long three span prestressed concrete girder bridges each supported by extended steel pipe pile piers and abutments on spread footings and each having an 11 m wide concrete deck.
2844	Nicola Underpass	Coquihalla Highway	Yale-Lillooet	A 65 m long two span prestressed concrete girder bridge supported by a pier and a abutments on spread footings and having a two-lane concrete deck.
6373	Three Mile Bridge	Spences Bridge to Merritt Highway	Yale-Lillooet	A 100 m long three span prestressed concrete girder bridge supported on extended steel pipe pile piers and abutments on steel H-piles. The concrete deck is 11 m wide.
1535	Boston Bar Bridge	Boston Bar to North Bend Access	Yale-Lillooet	A 236 m long five span bridge with a 10.7 m wide concrete deck. The superstructure consists of three long steel deck truss spans and two steel stringer spans. The substructure consists of two abutments on spread footings, a short pier on steel pipe piles, two tall concrete piers on large diameter steel pipe pile, and a tall concrete pier anchored on rock. A major portion of the steelwork used was salvaged from three dismantled bridges.

DOCK ENGINEERING AND OPERATIONS

During the year, this division carried out design work on five ferry terminals and supervised the construction work at ten terminals all as listed in tabular form in this report. In addition, designs for twelve bridges were completed and work is continuing on six others (as covered under Bridge Design).

Numerous maintenance operations were also carried out on all Ministry ferry terminals.

Description	Design Completed	Design In Progress
Design:		
B-3023 Albion and McMillan Island Ferry Terminals - installation of new ramps, pontoons and aprons at each of these terminals	X	
D-2997 Albion Ferry Terminal - shore portion of the refuelling system for the ferry M.V. KLATAWA which has been converted to run on natural gas fuel		X
Gabriola Ferry Terminal - new steel support towers		X
Nanaimo Ferry Terminal - new toll booth, office and stores building		X
Construction:		
D-2436 Balfour and Kootenay Bay Ferry Terminals - new loading ramps at each terminal to accommodate full highway loading	X	
D-1711 Port McNeill Ferry Terminal - modifications and repairs to dolphins and wingwalls	X	
Albion and McMillan Island Ferry Terminals - contract for the fabrication and supply of steelwork to be used in Project B-3023		X
B-2945 Campbell River and Quathiaski Cove Ferry Terminals - repairs to dolphins and wingwalls	X	
Nanaimo and Kuper Island Ferry Terminals - painting of structural steelwork at each terminal	X	
Westview Ferry Terminal - replacement and repairs to dolphins	X	

ANNACIS SYSTEM

Construction of the Annacis Bridge Main Span has proceeded on schedule and at the end of the year the value of the work completed was $29,500,000 (59% of bid value).

The four sidespan piers are complete, the topping out of the main tower S1 is scheduled for mid April to be followed by tower N1 in June.

3000 tonnes (60% of total) of structural steel has been fabricated and 130 precast deck panels (30% of total) have been cast. The contractor has also taken delivery of the first shipment of prefabricated stay cables and sockets.

The erection of the superstructure, i.e. structural steel girders and floorbeams, precast deck panels, and stay cables is scheduled for early May, with all material being hoisted to the deck from land, and construction progressing outward in both directions from Piers S1 using the balanced cantilever technique.

On the north approaches, all substructure construction was completed, all precast girders were placed between Piers N3 and N20, and a substantial portion of the deck was cast. Work on approach contract, N20 to north abutment and Off-Ramp, commenced in February.

Construction of the south approaches proceeded very rapidly, and at the end of the year the contractor was approximately two months ahead of schedule. However, on the Annacis Channel Moveable Bridge, progress was slow and at the end of the year the value of work completed was only $1,960,000 (19% of bid value) while 50% of the contract time had elapsed.

Construction is in progress on the south end of the Queensborough Bridge, on which the last six spans of the southbound lanes have been demolished under Phase I modifications.

Work is also proceeding on several "minor" structures; Cliveden Underpass, 72nd Avenue B.N.R. Overhead and 64th Avenue B.N.R. Overhead.

Tenders will be called in early 1985/86 for 84th Avenue B.N.R. Overhead, Nordel Underpass and four structures at Highway 10.

The total value of construction of structures on the Annacis System during the year was $52,000,000.

REGULATORY AGENCIES LIAISON

Once again the number of applications for approval of high pressure gas lines was quite limited and the number of applications for new or relocated level crossings of railways, signalization of level crossings and grade separations was also down somewhat from previous years.

To date there has not been a program set-up by the federal government to replace the Urban Transportation Assistance Program. However, applications were made to the Canadian Transport Commission for the construction of seven grade separations and a four kilometre diversion of the Burlington Northern Railroad for the Annacis Highway, as well as a new grade separation on the Coquihalla Highway and alterations to a grade separation on Highway 5.

Applications for approval of five projects were made to the Coast Guard under the Navigable Waters Protection Act.

BRIDGE INSPECTION

Computerization of the bridge register has been completed. To date data has been entered on the system for fourteen of the highway districts.

Detailed inspections and calculations were completed on six bridges to assist the Ministry of Attorney General's Civil Litigation Department. Further, detailed engineering reports were written and submitted to the Ministry of Attorney General for use in litigation.

Districts were assisted in the design of 14 bridges and the repair of approximately 22. They were further assisted with documents for two paint contracts.

Advise was given to Weigh Scale Branch on proposed overloads. An increasing number of overload requests resulted from the Coquihalla Highway Project.

Utility companies were further advised on the acceptability and placement of utilities on bridges.

REPORT OF THE DIRECTOR OF HIGHWAY PLANNING AND TRAFFIC

D.R. Parkes, P. Eng.

During the 1984/85 fiscal year the Highway Planning and Traffic Branch continued to provide support for the Annacis System Project. It also assisted in the initiation of the Coquihalla System and undertook a number of traffic management projects including the successful introduction of reversible lanes on the Okanagan Bridge and the routing of traffic to and from Abbotsford; site of the Papal Mass held in September. Subdivision activity was somewhat reduced. The number of lots created dropped from around 5,000 in 1983 to 3,490 in 1984 while the amount of new highway established fell from 230 kilometres to just under 150 kilometres.

Highway Planning Section

a) Highway Planning and Corridor Analysis

During fiscal year 1984/85, the Highway Planning Section continued its review of the Provincial highway system, assembled an accelerated highway capital program and also carried out studies ranging from the development of transportation management strategies to the evaluation of transportation corridors. Examples include:

i) A strategy to convert Highways 1 and 5 in southwest Kamloops to full freeway standards.
ii) Finalization for the configuration of the Highway 11 relocation in Abbotsford - Matsqui.
iii) An operational analysis for Highway 17 on the Saanich Peninsula.
iv) Development of a phasing philosophy for Highway 97 upgrading in the north Okanagan area.
v) Release of the Primary Corridor Analysis Study for Highway 7 in Maple Ridge.

b) Major Street Network Planning

The primary function of this section is to develop comprehensive road transportation network plans, strategies and functional layouts in order to provide for short and long term solutions to transportation problems for metropolitan, urban, regional and rural areas. This work was continued from the previous year in 30 communities, and during fiscal years 1984/85 a further 12 were initiated. Technical agreement, and in most cases Municipal Council and Regional Board endorsements, has been achieved in six network studies.

The purpose of these studies is to identify the physical and land use limitations for transportation corridors prior to urban development or redevelopment so that feasible, effective, and widely accepted corridors can be protected and acquired, thus enabling future construction at acceptable costs with the least possible disruption to communities. Local jurisdictions are encouraged to adopt these network strategies as the transportation component of their official community plans and official settlement plans. The strategies are an important element in the assessment of applications from municipalities seeking Provincial cost sharing funds under either the Revenue Sharing Act or the Secondary Highways Program. This planning work also provides guidance to the Approving Officers from both the Municipal and Provincial levels and gives a framework for decisions concerning zoning, subdivisions, access and the traffic impacts and internal layout of major land developments.

c) Technical Resource and Impact Analysis

The section's role as a technical resource on a wide range of transportation related planning matters has been through participation on inter-Branch, inter-Ministry and inter-agency committees and task forces such as:

i) Transport Canada's West Coast Access Study and Parks Canada's Four Mountain Parks Access Study.
ii) The design review for the Cameron Street overhead in Prince George.
iii) The impact of the C.N. Rail project on surplus road right-of-way in the City of North Vancouver's road right-of-way for the joint Lower Level Route development at 3rd Street.

d) Special Projects

In the 1984/85 fiscal year, the section was also involved in special projects such as:

i) The impact of increased railway traffic to the Roberts Bank Terminal on road/rail and community conflicts in Langley.
ii) The impact of the Advanced Light Rapid Transit extension across the Fraser River to Surrey together with a recommended joint strategy for improvements to the south end of the Pattullo Bridge and the Advanced Light Rapid Transit station access.

e) **Investigation and Analysis**

In the 1984/85 fiscal year the Investigation and Analysis Group continued to disseminate travel information to users within and outside the public sector; however, the special summer data collection program was not mounted. The amount of new information obtained was restricted to surveys done by office staff and, in a few cases, operational staff. Surveys were undertaken in several centers as follows:

- Intersection counts which provide site specific traffic characteristics were performed in the Western Communities, Esquimalt, on the Saanich Peninsula, in Nanaimo, Campbell River, North Vancouver, and Dawson Creek.
- One license plate survey which measured the amount of traffic external to Cumberland was performed for the Municipal Programs section.
- A "mail-back" system questionnaire was distributed on the Steveston Highway on-ramp to Route 99 in order to assist in planning improvements to the southbound traffic flow into the George Massey Tunnel.

Also during this fiscal year, an increased emphasis was put in re-evaluating the present management of traffic data within the Ministry in light of the continual change taking place toward more sophisticated information technology.

Work is in progress on a New Traffic Information System (N.T.I.S.) which will streamline both the collection and dissemination of traffic data.

This involves a more rapid processing of automatic count data and quicker access to information by a much wider group of users.

Annacis System Section

The principal function of this section is to manage the Ministry, consultant, and contractor resources engaged in the planning, design, and construction of the Annacis Island Bridge and highway system.

Construction of the main river crossing and support highway system is proceeding on schedule for completion by the end of August 1986. To the end of the fiscal year 1984/85, a total of $200,012,000 has been expended.

For the main crossing, all foundation work was completed by September 1984.

By the end of the fiscal year, the south main tower had reached its full height of 153 metres while the north main tower was 65 percent of full height. All four lesser piers have been completed. Structural steel fabrication, manufacture of cables, and production of precast deck panels commenced and initial deliveries have been received at the construction site. Preparatory work commenced for construction of the bridge superstructure.

Four major contracts were awarded for construction of the approach spans north and south of the river. This work is well ahead of schedule.

Construction continued on the swing bridge crossing of Annacis Channel and major new contracts were awarded for the realignment of the south end of the Queensborough Bridge and construction of the main highway crossing of Annacis Channel. Additional contracts were awarded for the construction of four minor structures and design work proceeded on an additional seven minor structures.

South of the Fraser River, acquisition of all required right-of-way for current construction was completed and grading for the highway alignment and railway relocations proceeded as scheduled. In addition to a number of day labour projects, major construction contracts awarded in fiscal 1984/85 included:

- two dredging contacts
- purchase of hog fuel
- one soil preparation contract
- three major grading contracts

Delta Municipality and the Ministry reached agreement on road connections. A community-social impact study was completed, and work commenced on detailed roadway design and right-of-way acquisition.

North of the main river crossing acquisition of required right-of-way for current construction was completed, two railway relocation projects were opened to service, and highway construction work has proceeded on schedule. In addition to a number of day labour projects, major road construction contracts awarded in fiscal 1984/85 included:

- one dredging contract
- purchase of hog fuel
- four soil preparation contracts
- two grading contracts
- two paving contracts

At the north end of the Queensborough Bridge roadway construction continued on the interim connection of Marine Way to the bridgehead and municipal road connections. The Ministry continued preliminary design work and liaison with the City of New Westminster on longer term road improvement options and on local area access issues. A paving contract was awarded to complete the Marine Way facility.

Detailed roadway design and right-of-way acquisition commenced for the new four lane highway through Richmond. A contract has been awarded for the supply of 2,200,000 cubic metres of dredged river sand for highway construction. Just prior to the end of the fiscal year, tenders closed for the first construction contract. This facility is scheduled for completion in early 1988 and will link the Annacis Crossing facility to Knight Street, Highway 99, and the Richmond central area.

Municipal Programs Section

The Secondary Highway Program, the Roads Section of the Revenue Sharing Act Program and the Urban/Arterial Highway Program were continued. The Ministry approved the amounts of $1,068,757 for construction and $449,117 for maintenance works carried out on 321 kilometres of Secondary Highways this year. Examination was undertaken and recommendations made to the Ministry of Municipal Affairs regarding approximately 148 applications received under the Roads Section of the Revenue Sharing Act resulting in grants totalling approximately $5,000,000 by the Ministry of Municipal Affairs for road related works on 36 of the applications. Negotiations were carried out with 10 municipalities regarding downtown revitalization projects and 17 municipalities concerning urban street renewal and bridge assistance under Section 32(3) of the Highway Act. Staff met with representatives of numerous municipalities and Regional Districts during the annual U.B.C.M. Convention and followed up on questions raised. A large number of changes in classification were considered resulting in the cancellation of 16 arterial highways and the establishment of 20 new ones. Five secondary highways were cancelled and four were established. Comments and recommendations concerning 18 proposed boundary extensions, restructures and new incorporations were forwarded to the Ministry of Municipal Affairs.

Approving Section

The approval of subdivision of land applications for all rural areas in the Province lies with the Ministry and is administered through 38 District offices and six Regional offices. The Ministry approved 1,276 subdivision applications which created an additional 3,490 building lots and approximately 144 kilometres of highway were added to the system through dedication of road by subdivision.

The offices also approved the following applications:

Controlled Access Permits	436
Ordinary Driveway Permits	2,845
Zoning Bylaws	1,231
Other Permits	4,815

REGIONAL SUMMARY OF REGULATORY ACTIVITIES

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Burnaby	49	276	455	639	118	770	11.00	8.38
Kamloops	164	779	338	1681	329	840	24.87	46.65
Nelson	50	283	119	610	213	421	20.11	23.04
Prince George	76	473	94	791	188	368	36.66	38.61
Terrace	53	173	22	256	54	112	10.90	6.10
Nanaimo	44	861	203	838	374	979	40.74	17.03
TOTALS	436	2845	1231	4815	1276	3490	144.28	139.81

1. Controlled Access Permits Issued
2. Ordinary Access Permits Issued
3. Zoning Bylaws
4. Other Permits
5. Subdivision (Final)
6. Lots Created (Final)
7. Kilometres of New Road Dedicated (Final)
8. Hectares of Widened Right-of-Way to Existing Highways

Traffic Section

During the past year, travel activity continued at a high level in the Province, and there was generally an increase in the number of vehicles using British Columbia highways from the previous year. The Traffic Section cooperated with individuals and organizations in the associated fields of traffic safety, traffic planning, standardization of traffic control devices and traffic operations.

The Traffic Section represented the Ministry on the Roads and Transportation Association, Council on Uniform Traffic Control Devices for Canada and the Road and Transportation Association Committee on Traffic Operations.

Short duration annual traffic counts were taken with automatic equipment at approximately 700 locations throughout the Province. All short counts taken on Vancouver Island and in the Fraser Valley recorded traffic volumes separately for each direction of travel. Directional traffic volumes were also recorded continuously throughout the year at 28 permanent counters. Data can now be retrieved automatically from eight of these installations by telemetry.

Punched tape traffic counts are used almost exclusively so that calculation of traffic count statistics can be accomplished with data processing equipment.

In the summer of 1971, the Traffic Section began to install electronic loop detection systems at regular short duration traffic count stations on high speed/high volume highways. The new detectors, replacing the rubber road tubes previously used, allow employees to set up counts on the shoulder without having to venture onto the travelled lanes. The program will be continued this summer.

Summer daily traffic volumes for 1984 showed approximately 64,000 vehicles on First Narrows Bridge; 86,000 vehicles on Second Narrows Bridge; 77,000 vehicles on Port Mann Bridge; 78,000 vehicles on Oak Street Bridge; 61,000 vehicles on Knight Street Bridge; 67,000 vehicles on Pattullo Bridge and 74,000 vehicles in the George Massey Tunnel. Data from the permanent count stations showed a decrease in 1984 over 1983 of approximately two percent in the Southern Interior; three percent on Vancouver Island; four percent in the Northern Interior and an increase of three percent on the Lower Mainland.

Numerous intersection problems were investigated during the year. Many vehicle turning movement counts were taken manually and designs prepared for improvements at approximately 40 intersections and median island projects. Improvements such as widening, channelization, signing and signal revisions were carried out at many of these intersections to give greater capacity, to reduce hazards and delay, and to improve traffic operations. In addition, the efficiency of several signal corridors was improved by the installation of computer analyzed signal progressions. These progressions synchronize the signals to increase capacity while reducing delay and fuel consumption. There has been a continuing increase in traffic problems referred to the Traffic Section and in requests for vehicular signals, pedestrian signals, flashing beacons, and crosswalk markings and signing.

Many highway design plans were reviewed to ensure that intersections and interchanges would function with as few operational and capacity problems as possible. In particular, an ongoing review of the geometric designs has been carried out for both the Annacis and Coquihalla Highway Projects.

A reversible lane control system similar to that of the Lions Gate Bridge in Vancouver was designed and installed on the Okanagan Lake Floating Bridge. The bridge surface was re-marked to provide three lanes for vehicular travel with the centre lane available for travel in either direction depending on traffic demand. Special advance warning signs and lane use signals were utilized to ensure smooth and orderly traffic flow. The new system has been very successful at reducing delays during peak traffic periods.

Signing designs for the Annacis and Coquihalla Highway Projects are in the final stages. The emphasis has been on designing signs for legibility at high speeds which will effectively impart messages to both local, inter-regional and tourist traffic. Care is being taken to ensure that the sign messages will provide the maximum benefit to the driver.

A system of changeable message signs is being developed for use in traffic management on the Annacis Highway and for road information on the Coquihalla Highway. The Annacis system will consist initially of two changeable message signs mounted overhead on structures for traffic crossing the main span. The Coquihalla system will consist of 11 changeable message signs, located on Routes 1, 5 and 7, linked by telephone connection to a central computer for an integrated updating of the messages.

Welcome signs at inter-Provincial and international highway entry points were replaced this spring with signs welcoming visitors to Expo 86.

Four railway grade crossings were signalized in cooperation with the Canadian Transport Committee and the railways.

Changing conditions necessitated reviews of many speed limits throughout the Province. The Ministry obtained the opinions of police forces in many cases, and where necessary, travel speeds were checked with radar.

A very heavy electrical design program was undertaken to keep up with the extensive construction projects that were called last year. These projects, include Cape Horn - Colony Farm Overhead, Mary Hill Bypass - Stage 2, Marine Way, Westbank Couplet, Kelowna Six Laning - Stage 1, Burns Lake Bypass, Halston Connector to Route 5, Route 5 Weigh Scale to C.N.R. Junction, Kingston Avenue - Halston Overpass, Route 16 - Vanderhoof Hill lighting, Fort Nelson River Bridge signal including generator and building and others, were in addition to our usual design load of lighting and traffic signals.

Most new traffic signalized intersections were controlled by solid state traffic controllers. An extensive program of upgrading existing intersections and old moduvac electromechanical equipment has been removed from the field. The signal count this year was 33 new intersections signalized; 29 intersections rebuilt; and 17 electromechanical equipment intersections upgraded.

The new lighting on the Port Mann Bridge has been operating for one year and the lighting improvement is dramatic, and the power and maintenance savings have been excellent.

CLASSIFICATION OF HIGHWAYS

Under Part III of the "Highway Act"
Statement Showing Highways Classified as at March 31, 1985

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Approximate Length (km) Secondary
ABBOTSFORD (D)*	5R	Essendene Ave. & Huntingdon-Mission Hwy. (West Railway St.)	Arterial	0.80	—
	11R	Huntingdon-Mission Hwy.	Arterial	0.53	—
	336R	McCallum Road (East Side)	Arterial	0.37	—
	342R	McCallum Road (East Side)	Arterial	1.59	—
	381R	Trans-Canada Hwy. & Interchanges	Arterial	27.12	—
	402R	Trans-Canada Hwy.	Arterial	2.01	—
	403R	Huntingdon-Mission Hwy.	Arterial	4.70	—
	771R	Huntingdon-Mission Hwy. Realign.	Arterial	1.41	
	208B	No. 3 Road	Secondary	—	3.06
ALERT BAY (V)	793R	Fir Street & Poplar Road	Arterial	2.76	—
ARMSTRONG (C)	270R	Vernon-Sicamous Hwy.	Arterial	0.84	—
	272B	Pleasant Valley Rd. & Smith Dr.	Secondary	—	2.82
	296B	Armstrong-Salmon River Rd.	Secondary	—	1.55
ASHCROFT (V)	580R	Ashcroft-Cache Ck. Hwy., 1st St., Barnes Ave. & Highland Valley Rd.	Arterial	4.26	—
BELCARRA (V)		NIL			
BURNABY (D)	1R	Kingsway	Arterial	6.79	—
	17R	Lougheed Hwy.	Arterial	9.90	—
	135R	Canada Way (Grandview-Douglas Hwy.)	Arterial	4.14	—
	272R	Tenth Ave. (north half)	Arterial	2.01	—
	293R	Barnet Hwy.	Arterial	10.27	—
	376R	Trans-Canada Hwy. & Interchanges	Arterial	22.90	—
	414R	Simon Fraser University Access Hwy.	Arterial	3.41	—
	618R	Grandview Hwy. (Clydesdale)	Arterial	0.09	—
	663R	Gaglardi Way	Arterial	0.96	—
	739R	Marine Way	Arterial	5.80	—
	14B	North Road (west half)	Secondary	—	2.25
	22B	Marine Drive	Secondary	—	5.31
BURNS LAKE (V)	298R	Burns Lake-Babine Road	Arterial	0.86	—
	803R	North Francois Highway	Arterial	1.00	—
	732R	Yellowhead Highway	Arterial	22.80	—
CACHE CREEK (V)	569R	Cariboo Hwy.	Arterial	0.82	—
	643R	Trans-Canada Hwy.	Arterial	5.85	—
CAMPBELL RIVER (D)	750R	Campbell River-Gold River Hwy.	Arterial	8.99	—
	782R	Island Hwy. & Discovery Cres.	Arterial	18.78	—
	292B	Brewster Lake Road	Secondary	—	4.03
CASTLEGAR (C)	452R	Southern Trans-Provincial Hwy.	Arterial	2.86	—
	626R	Columbia Avenue	Arterial	6.08	—
	261B	Columbia Avenue	Secondary	—	3.91
CENTRAL SAANICH (D)	170R	West Saanich Road	Arterial	7.32	—
	172R	Verdier Avenue	Arterial	1.24	—
	213R	Patricia Bay Hwy.	Arterial	6.92	—
	121B	Keating Cross Road	Secondary	—	3.22
	216B	Island View Rd., Saanich Cross Rd. & Central Saanich Rd.	Secondary	—	1.06

* Key to Municipal Designation - (C) City (D) District (R) Resort (T) Town (V) Village

Statement Showing Highways Classified as at March 31, 1985 (continued)

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Approximate Length (km) Secondary
CHASE (V)	500R	Trans-Canada Hwy.	Arterial	1.61	—
	229B	Old Trans-Canada Hwy. (Chase Business Route)	Secondary	—	2.74
	282B	Pine Street	Secondary	—	0.95
CHETWYND (D)	675R	John Hart-Peace River Hwy.	Arterial	3.83	—
	717R	Hudson's Hope Highway	Arterial	2.27	—
CHILLIWACK (D)	280R	Chilliwack Lake Road	Arterial	1.24	—
	344R	Trans-Canada Hwy.	Arterial	24.65	—
	174B	Yale Road East	Secondary	—	11.97
	277B	Vedder Mtn. Rd., Yarrow Central Rd. & Dyke Road	Secondary	—	8.14
	290B	Yale Road, Cheam Ave., Hope St., First Ave. & Broadway St.	Secondary	—	2.16
	281B	First Ave. & Broadway St.	Secondary	—	1.04
	294B	Vedder Road & Cultus Lake Road	Secondary	—	6.06
CLINTON (V)	387R	Cariboo Highway	Arterial	2.06	—
	391R	Pavilion-Clinton Road	Arterial	0.55	—
COLDSTREAM (D)	103R	Vernon-Slocan Hwy.	Arterial	14.48	—
	754R	Okanagan Hwy.	Arterial	2.03	—
COMOX (T)	291B	Comox Ave. & Anderton Rd.	Secondary	—	2.64
	293B	Comox Ave., Pritchard Road, Balmoral Ave., & Port Augusta St.	Secondary	—	2.30
COQUITLAM (D)	167R	Brunette Street	Arterial	0.64	—
	553R	Trans-Canada Hwy. & Interchanges	Arterial	11.67	—
	566R	Lougheed Hwy.	Arterial	11.76	—
	578R	Barnet Hwy.	Arterial	1.93	—
	722R	Mary Hill Bypass Interchange	Arterial	1.13	—
	788R	Mary Hill Bypass	Arterial	1.08	—
	14B	North Road (east half)	Secondary	—	2.25
	115B	Clarke Road	Secondary	—	1.69
COURTENAY (C)	804R	Island Highway	Arterial	4.10	—
	805R	Ryan Road	Arterial	2.40	—
	741R	Comox Road	Arterial	0.39	—
	808R	17th St., Willemar Ave. & Cumberland Road	Arterial	1.70	—
CRANBROOK (C)	628R	Southern Trans-Provincial Hwy.	Arterial	6.07	—
CRESTON (T)	718R	Southern Trans-Provincial Hwy.	Arterial	5.36	—
	800R	Creston-Rykerts Hwy.	Arterial	0.35	—
	275B	Erickson St., 17th Ave. & 16th Ave.	Secondary	—	2.03
CUMBERLAND (V)	300B	Cumberland Rd. & Fourth St.	Secondary	—	2.59
	301B	Royston Rd.-Dunsmuir Ave.-Suttons Rd. & Comox Lake Rd.	Secondary	—	4.12
DAWSON CREEK (C)	257R	John Hart-Peace River Hwy.	Arterial	0.61	—
	363R	Alaska Hwy., Alaska Ave. & Dawson Ck.-Spirit River Hwy.	Arterial	5.18	—
	740R	Dawson Creek-Tupper Hwy (Eighth St.)	Arterial	7.07	—
	196B	Eighth St.	Secondary	—	1.72

Statement Showing Highways Classified as at March 31, 1985 (continued)

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Approximate Length (km) Secondary
DELTA (D)	349R	Tsawwassen Hwy.	Arterial	10.35	—
	350R	Point Roberts Hwy.	Arterial	4.57	—
	352R	Scott Road (west side)	Arterial	7.92	—
	353R	Vancouver–Blaine Hwy.	Arterial	14.76	—
	530R	Roberts Bank Road	Arterial	5.31	—
	685R	Ladner–Langley Hwy.	Arterial	13.26	—
	721R	Swenson Road	Arterial	0.93	—
	734R	Annacis Island Hwy.	Arterial	9.00	—
	746R	River Road Connector (Nor Del Interchange)	Arterial	0.61	—
	788R	Annacis Island Access Road	Arterial	0.43	—
	790R	64th Ave. & 64th Ave. Realign.	Arterial	2.00	—
	791R	72nd Ave. Extension	Arterial	1.00	—
	792R	88th Ave., Annacis Island Hwy. Connector	Arterial	3.00	—
DUNCAN (C)	281R	Trans–Canada Hwy.	Arterial	1.21	—
	282R	Trunk Rd. & Government St.	Arterial	2.01	—
	119B	Tzouhalem Rd.	Secondary	—	1.09
ELKFORD (D)	729R	Elk Valley Rd.	Arterial	8.20	—
	743R	Fording Mine Road	Arterial	15.00	—
ENDERBY (C)	36R	Vernon–Sicamous Hwy.	Arterial	1.79	—
	125B	Cliff Street	Secondary	—	0.26
ESQUIMALT (D)	472R	Craigflower Road	Arterial	2.65	—
	246B	Tillicum Road	Secondary	—	0.53
FERNIE (C)	646R	Southern Trans–Provincial Hwy.	Arterial	3.80	—
FORT NELSON (V)		NIL.			
FORT ST. JAMES (V)	728R	Vanderhoof–Stuart Lake Hwy. (Douglas Ave. & Stuart Dr. W. & Germansen Landing Rd.)	Arterial	4.15	—
	736R	Tachie Road	Arterial	4.27	—
FORT ST. JOHN (C)	279R	100 St. (MacKenzie St.)	Arterial	3.43	—
	658R	100 Ave. (Centre Ave.)	Arterial	3.20	—
	682R	Alaska Highway	Arterial	4.41	—
FRASER LAKE (V)	735R	Yellowhead Highway	Arterial	2.68	—
FRUITVALE (V)	202R	Nancy Greene Lake–Rossland–Meadows Hwy.	Arterial	2.98	—
	129B	Columbia Gardens Rd.	Secondary	—	1.29
GIBSONS (T)	806R	Sunshine Coast Hwy.	Arterial	2.99	—
	226B	Gower Point Road	Secondary	—	1.96
	227B	North Road	Secondary	—	0.80
GOLDEN (T)	804R	Trans–Canada Hwy.	Arterial	4.07	—
	639R	Kootenay–Columbia Hwy. (Golden Bypass)	Arterial	3.40	—
	745R	Kootenay–Columbia Hwy.	Arterial	3.90	—
GOLD RIVER (V)	677R	Muchalat Drive	Arterial	3.71	—
	678R	Gold River Road	Arterial	1.16	—
GRAND FORKS (C)	464R	Southern Trans–Provincial Hwy.	Arterial	4.80	—
GRANISLE (V)	527R	Granisle Arterial	Arterial	1.45	—

Statement Showing Highways Classified as at March 31, 1985 (continued)

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Approximate Length (km) Secondary
GREENWOOD (C)	619R	Southern Trans-Provincial Hwy.	Arterial	3.38	—
HARRISON HOT SPRINGS (V)	161R	Harrison Hot Springs Road and Lillooet Avenue	Arterial	4.25	—
HAZELTON (V)	590R	Hazelton Arterial	Arterial	2.40	—
	597R	Hazelton Access Road	Arterial	1.50	—
HOPE (T)	179R	Southern Trans-Provincial Hwy.	Arterial	2.65	—
	180R	Trans-Canada Hwy.	Arterial	1.69	—
	794R	Southern Trans-Provincial Hwy. Realignment	Arterial	2.70	—
	159B	Kawkawa Lake Road	Secondary	—	0.51
	160B	Sixth Avenue	Secondary	—	0.21
HOUSTON (D)	620R	Yellowhead Highway	Arterial	13.39	—
HUDSON'S HOPE (D)	520R	Peace River Canyon Road	Arterial	23.82	—
	521R	Chetwynd-Hudson's Hope-Charlie Lake Hwy.	Arterial	38.70	—
	715R	Beryl Prairie Road	Arterial	12.47	—
INVERMERE (D)	801R	Laurier St., 3rd St. & Westside Road	Arterial	2.45	—
	802R	Westside Road, 13th Ave., 13th St., 7th Ave., 5A St., 7th St., & 3rd Ave.	Arterial	3.90	—
KAMLOOPS (C)	694R	Trans-Canada Hwy.	Arterial	32.72	—
	696R	Princeton-Kamloops Hwy.	Arterial	5.67	—
	716R	Yellowhead South Hwy.	Arterial	12.59	—
	776R	Lac Le Jeune Road	Arterial	6.67	—
KASLO (V)	450R	Balfour-Kaslo-Galena Bay Hwy. & Kaslo-New Denver Hwy.	Arterial	2.99	—
	473R	Balfour-Kaslo-Galena Bay Hwy.	Arterial	1.19	—
KELOWNA (C)	691R	Okanagan Hwy.	Arterial	20.91	—
	692R	Rock Creek-Kelowna Hwy.	Arterial	9.10	—
	701R	Rutland Road	Arterial	2.76	—
KENT (D)	160R	Harrison Hot Springs Road	Arterial	3.81	—
	290R	Rockwell Drive	Arterial	6.44	—
	545R	Agassiz Bypass	Arterial	2.74	—
	588R	Lougheed Hwy.	Arterial	33.50	—
	614R	Agassiz-Rosedale Hwy.	Arterial	4.59	—
KEREMEOS (V)	438R	Southern Trans-Provincial Hwy.	Arterial	2.00	—
	439R	Keremeos-Kaleden Junction	Arterial	0.82	—
KIMBERLEY (C)	557R	St. Mary's Lake Road	Arterial	4.02	—
	558R	Cranbrook-Kimberley-Wasa Hwy.	Arterial	9.49	—
KITIMAT (D)	277R	Terrace-Kitimat Hwy.	Arterial	6.84	—
	503R	Road to Industrial Area	Arterial	2.90	—
LADYSMITH (T)	577R	Trans-Canada Hwy.	Arterial	5.07	—
	176B	Chemainus Road	Secondary	—	1.45
LAKE COWICHAN (V)	679R	South Shore Road & Lake Cowichan Road	Arterial	2.48	—

Statement Showing Highways Classified as at March 31, 1985 (continued)

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km)	
				Arterial	Secondary
LANGLEY (C)	263R	Fraser Hwy.	Arterial	4.83	—
	576R	200th St. (Carvolth Rd.)	Arterial	0.11	—
	665R	Langley Bypass	Arterial	1.27	—
	700R	Ladner–Langley Hwy.	Arterial	2.64	—
	256B	200th St. (Carvolth Rd.)	Secondary	—	3.22
LANGLEY (D)	77R	Aldergrove–Bellingham Hwy.	Arterial	6.50	—
	259R	Ladner–Langley Hwy. & Glover Rd.	Arterial	9.66	—
	262R	Fraser Hwy.	Arterial	17.70	—
	368R	County Line Rd. (Aldergrove–Bellingham Hwy.)	Arterial	4.34	—
	380R	Trans–Canada Hwy. & Inter.	Arterial	32.86	—
	445R	200th St. (Carvolth Rd.)	Arterial	5.02	—
	457R	Ladner–Langley Hwy.	Arterial	2.78	—
LILLOOET (V)	635R	Lytton–Lillooet Hwy.	Arterial	0.71	—
	662R	Nugget Road	Arterial	0.93	—
	760R	Lillooet–Pioneer Road, Main St. & Seton Lake Rd.	Arterial	3.40	—
LIONS BAY (V)	518R	Garibaldi Hwy.	Arterial	2.59	—
LOGAN LAKE (D)	753R	Mamit Lake Road	Arterial	1.27	—
	797R	Old Meadow Creek Road	Arterial	2.10	—
	798R	Meadow Creek Road	Arterial	3.60	—
LUMBY (V)	775R	Vernon–Slocan Hwy.	Arterial	3.00	—
	279B	Shuswap Ave.	Secondary	—	2.66
LYTTON (V)	108R	Lytton–Lillooet Hwy. (Sixth & Fraser Streets)	Arterial	0.45	—
	478R	Trans–Canada Hwy.	Arterial	1.21	—
	479R	Lytton S. Approach & Main St.	Arterial	1.45	—
MCBRIDE (V)	526R	Yellowhead Highway	Arterial	1.19	—
	236B	First Ave. & Main St.	Secondary	—	1.25
MACKENZIE (D)	436R	MacKenzie Hwy. & Parsnip River Rd.	Arterial	20.44	—
MAPLE RIDGE (D)	22R	Lougheed Hwy.	Arterial	20.05	—
	407R	River Rd. & 17th Ave.	Arterial	0.39	—
	689R	222nd St. & River Rd.	Arterial	2.54	—
	253B	Dewdney Trunk Rd. & 224th St.	Secondary	—	17.94
	254B	232nd St. & Fern Crescent	Secondary	—	6.44
MASSET (V)	494R	Harrison Ave., Delkatla St., Hodges Ave., Delkatla Causeway, Shore Rd. & Queen Charlotte City–Masset Rd.	Arterial	4.59	—
	640R	Tow Hill Road	Arterial	7.72	—
MATSQUI (D)	337R	McCallum Rd. (West side)	Arterial	1.91	—
	422R	Fraser Hwy.	Arterial	5.79	—
	671R	Huntingdon–Mission Hwy.	Arterial	8.23	—
	772R	Huntingdon–Mission Hwy. Realign.	Arterial	1.52	—
	783R	Trans Canada Hwy.	Arterial	13.80	—
	784R	Old Clearbrook Interchange Off Ramp	Arterial	0.24	—
	186B	South Fraser Way	Secondary	—	4.26
MERRITT (C)	73R	Merritt–Spences Bridge Hwy.	Arterial	1.61	—
	708R	Princeton–Kamloops Hwy.	Arterial	4.28	—

Statement Showing Highways Classified as at March 31, 1985 (continued)

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Approximate Length (km) Secondary
METCHOSIN (D)	807R	Sooke Road	Arterial	5.00	—
MIDWAY (V)	458R	Southern Trans-Provincial Hwy.	Arterial	7.21	—
	459R	Midway-U.S. Customs Rd.	Arterial	1.98	—
MISSION (D)	23R	Lougheed Highway	Arterial	14.64	—
	25R	Lougheed Hwy. (1st Ave.)	Arterial	2.25	—
	605R	Lougheed Hwy. (N. Railway Ave.)	Arterial	2.08	—
	796R	Huntingdon - Mission Hwy.	Arterial	4.90	—
	77B	Dewdney Trunk Road	Secondary	—	24.94
	260B	Shook Road	Secondary	—	0.72
	283B	Grand St., Seventh Ave. & Cedar	Secondary	—	5.15
MONTROSE (V)	246R	Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	1.61	—
NAKUSP (V)	484R	Vernon-Slocan Hwy., Nelson Ave. & Broadway St.	Arterial	1.87	—
	540R	Nakusp-Mica Ck. Hwy. (Broadway St., 6th Ave. W. & Canyon Rd.)	Arterial	3.89	—
NANAIMO (C)	355R	Brechin Road	Arterial	1.05	—
	687R	Trans-Canada Hwy.	Arterial	10.44	—
	688R	Island Hwy.	Arterial	11.35	—
	221B	Esplanade & Front St.	Secondary	—	0.56
NELSON (C)	559R	Castlegar-Nelson-Creston Hwy.	Arterial	4.99	—
	560R	Nelson-Nelway Hwy.	Arterial	2.30	—
NEW DENVER (V)	88R	Vernon-Slocan Hwy.	Arterial	1.46	—
	291R	Kaslo-New Denver Hwy. (Sixth Ave. & Victoria St.)	Arterial	0.71	—
NEW HAZELTON (D)	709R	Yellowhead Hwy.	Arterial	7.00	—
	710R	New Hazelton Hi-Level Rd.	Arterial	0.60	—
NEW WESTMINSTER (C)	734R	Annacis Island Highway	Arterial	1.60	—
	747R	Ewen Avenue, Pembina Street, Queensborough Bridge, including southerly & northerly approaches, Marine Drive & Sixth Avenue	Arterial	5.40	—
	765R	Annacis Island Access Road	Arterial	1.97	—
	777R	Marine Drive	Arterial	0.27	—
NORTH COWICHAN (D)	168R	Trans-Canada Hwy.	Arterial	19.47	—
	248R	Mt. Sicker Rd., Chemainus Rd., Crofton Rd. & Chaplin Rd.	Arterial	6.76	—
	249R	Cowichan Lake Road	Arterial	5.31	—
	482R	Cowichan Valley Hwy.	Arterial	5.57	—
	723R	Tanner Road	Arterial	0.80	—
	799R	Tzouhalem Road	Arterial	1.30	—
	169B	Chemainus Road	Secondary	—	7.88
	269B	Oak Street	Secondary	—	0.97
NORTH SAANICH (D)	411R	West Saanich Road	Arterial	9.01	—
	412R	Wains Road	Arterial	2.41	—
	416R	Lochside Drive	Arterial	0.71	—
	453R	Patricia Bay Hwy.	Arterial	6.39	—
	510R	Dolphin Rd. & Swartz Bay Rd.	Arterial	0.48	—
	585R	Canora Road	Arterial	0.97	—
	193B	McTavish Road	Secondary	—	3.54
NORTH VANCOUVER (C)	612R	Trans-Canada Hwy. & Interchanges	Arterial	4.81	—

Statement Showing Highways Classified as at March 31, 1985 (continued)

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km)	
				Arterial	Secondary
NORTH VANCOUVER (D)	611R	Trans-Canada Hwy. & Interchanges	Arterial	12.31	—
	767R	Fern St., Mtn. Seymour Parkway Connector & Riverside Drive	Arterial	2.40	—
	773R	Dollarton Hwy. & Deep Cove Road,	Arterial	7.60	—
	297B	Mount Seymour Parkway	Secondary	—	3.90
OAK BAY (D)	162B	Cadboro Bay Road	Secondary	—	3.38
	290B	Cedar Hill Cross Rd.	Secondary	—	1.60
OLIVER (V)	441R	Okanagan Hwy. (First Ave.)	Arterial	1.77	—
	212B	Seventh St. & McKinney Rd.	Secondary	—	1.06
100 MILE HOUSE (V)	606R	Cariboo Hwy.	Arterial	2.40	—
	714R	Exeter Truck Route & Exeter Station Rd.	Arterial	1.23	—
	271B	Horse Lake Road	Secondary	—	0.85
OSOYOOS (T)	656R	Southern Trans-Provincial Hwy.	Arterial	5.53	—
	657R	Okanagan Hwy.	Arterial	1.60	—
	264B	Eighty-Ninth St. & Sixty-Fourth Ave.	Secondary	—	1.48
PARKSVILLE (T)	177R	Parksville-Port Alberni Tofino Hwy.	Arterial	1.22	—
	706R	Island Highway	Arterial	3.67	—
	707R	Parksville Bypass	Arterial	1.10	—
PEACHLAND (D)	768R	Okanagan Hwy.	Arterial	11.52	—
	769R	Princeton Avenue	Arterial	5.73	—
PEMBERTON (V)	761R	Pemberton Meadows Road and Pemberton Portage Road	Arterial	1.67	—
	762R	Garibaldi Hwy. & Pemberton Portage Road	Arterial	7.40	—
PENTICTON (C)	634R	Okanagan Hwy.	Arterial	8.46	—
	638R	Martin St.	Arterial	1.10	—
	650R	Penticton Channel Parkway	Arterial	6.24	—
	763R	Penticton Channel Parkway	Arterial	1.16	—
	135B	Penticton-Naramata Road	Secondary	—	8.85
	273B	South Main St. & Lakeside Dr.	Secondary	—	6.18
PITT MEADOWS (D)	21R	Lougheed Highway	Arterial	5.20	—
	74B	Harris Road	Secondary	—	2.74
	75B	Hammond Road	Secondary	—	1.45
	78B	Harris Road	Secondary	—	3.06
	79B	McNeil Road	Secondary	—	3.22
	92B	Old Dewdney Trunk Road	Secondary	—	5.63
PORT ALBERNI (C)	33R	Parksville-Port Alberni-Tofino Hwy.	Arterial	2.90	—
	152R	Parksville-Port Alberni-Tofino Hwy. (River Road)	Arterial	2.57	—
	39B	Beaver Creek Road	Secondary	—	0.69
PORT ALICE (V)		NIL.			
PORT CLEMENTS (V)	733R	Queen Charlotte City-Masset Rd.	Arterial	2.62	—
	744R	Cedar Ave., Jasper St., Bayview Dr., Bayview Crescent & Juskatla Bay Road	Arterial	4.20	—

Statement Showing Highways Classified as at March 31, 1985 (continued)

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Approximate Length (km) Secondary
PORT COQUITLAM (C)	594R	Lougheed Hwy.	Arterial	5.23	—
	673R	Mary Hill Bypass	Arterial	2.42	—
	788R	Mary Hill Bypass	Arterial	3.87	—
	288B	Pitt River Rd., McLean Ave. & Kingsway Ave.	Secondary	—	3.96
PORT EDWARD (V)	599R	Port Edward–Cassiar Cannery Rd.	Arterial	14.24	—
	686R	Yellowhead Highway	Arterial	27.00	—
PORT HARDY (D)	504R	Hardy Bay Road	Arterial	3.96	—
	506R	Island Highway	Arterial	2.29	—
	621R	Byng Road	Arterial	3.03	—
	713R	Island Highway	Arterial	9.40	—
	737R	Douglas St. & Holberg Rd.	Arterial	4.50	—
	240B	Airport Rd.	Secondary	—	2.67
PORT MCNEILL (T)	507R	Campbell Way	Arterial	1.93	—
PORT MOODY (C)	200R	Barnet Highway	Arterial	6.32	—
	632R	Ioco–Port Moody Rd. & Knowle Drive	Arterial	4.25	—
	116B	Clarke Road	Secondary	—	1.29
	265B	Knowle Drive	Secondary	—	2.21
POUCE COUPE (V)	602R	Dawson Creek–Tupper Hwy.	Arterial	1.43	—
POWELL RIVER (D)	397R	Wharf Street	Arterial	0.14	—
	603R	Sunshine Coast Highway (Marine Ave., Ash Ave., Poplar St., Arbutus Ave. & Lund St.)	Arterial	14.48	—
	143B	Duncan Street	Secondary	—	2.74
PRINCE GEORGE (C)	786R	Yellowhead Highway	Arterial	27.18	—
	698R	Cariboo Hwy. & John Hart–Peace River Hwy.	Arterial	27.75	—
	699R	Aitcheson Rd. & Airport Rd.	Arterial	3.75	—
PRINCE RUPERT (C)	487R	Co–op Rd., Park Ave., Second Ave. McBride St. & Yellowhead Hwy.	Arterial	15.05	—
	730R	Ridley Island Access Road	Arterial	6.73	—
PRINCETON (T)	586R	Princeton–Kamloops Hwy.	Arterial	2.11	—
	587R	Tulameen Road	Arterial	2.99	—
	589R	Southern Trans–Provincial Hwy.	Arterial	3.54	—
	203B	Bridge Street	Secondary	—	0.64
QUALICUM BEACH (T)	94R	Island Highway	Arterial	5.25	—
	154R	Alberni Road, Second Ave., & Memorial Ave.	Arterial	2.57	—
	435R	Island Hwy. (Qualicum Beach Diversion)	Arterial	2.56	—
QUESNEL (C)	533R	Ewing St. & Fraser River Bridge	Arterial	0.39	—
	501R	Elliott St. & Blackwater Rd.	Arterial	2.04	—
	703R	Barkerville Highway	Arterial	0.15	—
	748R	Anderson Dr., Marsh Dr., Moffat Bridge & Approaches	Arterial	3.85	—
	785R	Cariboo Highway	Arterial	10.50	—

Statement Showing Highways Classified as at March 31, 1985 (continued)

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Approximate Length (km) Secondary
REVELSTOKE (C)	756R	Trans-Canada Hwy.	Arterial	8.80	—
	757R	Nakusp-Mica Creek Hwy.	Arterial	8.20	—
	758R	Victoria Road,Wright St., Douglas St., Wilson St. & Big Eddy Road	Arterial	2.60	—
	295B	Victoria Road, Railway Avenue Fourth St., Townley St. & Revelstoke Eastern Access	Secondary	—	4.50
RICHMOND (D)	295R	Sea Island Highway	Arterial	1.50	—
	301R	Vancouver-Blaine Hwy.	Arterial	10.03	—
	343R	Westminster Hwy.	Arterial	10.38	—
	564R	Knight Street	Arterial	7.11	—
	734R	Annacis Island Hwy.	Arterial	1.30	—
	234B	No. 3 Rd. & Bridgeport Rd.	Secondary	—	3.70
ROSSLAND (C)	418R	Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	1.69	—
	622R	Rossland-Paterson Hwy. & Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	4.02	—
SAANICH (D)	529R	West Saanich Rd. & Royal Oak Dr.	Arterial	8.93	—
	538R	Trans-Canada Hwy.	Arterial	4.38	—
	660R	Patricia Bay Highway	Arterial	14.55	—
	661R	Trans-Canada Hwy.-Patricia Bay Highway Connector	Arterial	0.85	—
	681R	McKenzie Ave.	Arterial	2.08	—
	148B	Tillicum Road	Secondary	—	0.14
	154B	Gorge Road	Secondary	—	2.74
	237B	Quadra Street	Secondary	—	4.99
	238B	West Saanich Rd.	Secondary	—	1.21
SALMO (V)	668R	Southern Trans-Provincial Hwy.	Arterial	1.05	—
	669R	Nelson-Nelway Hwy.	Arterial	1.02	—
	670R	Fourth Street	Arterial	0.58	—
SALMON ARM (D)	655R	Grindrod-Salmon Arm Hwy.	Arterial	5.50	—
	683R	Trans-Canada Highway	Arterial	22.43	—
	23B	Salmon Arm-Enderby	Secondary	—	1.11
	24B	Salmon Arm-Enderby	Secondary	—	6.76
	80B	Salmon Arm-Enderby	Secondary	—	0.34
	217B	Salmon Arm-Grand Prairie Rd.	Secondary	—	9.98
SAYWARD (V)	693R	Sayward Highway	Arterial	4.38	—
SECHELT (V)	244R	Porpoise Bay Road	Arterial	1.05	—
	320R	Sunshine Coast Highway	Arterial	1.58	—
SIDNEY (T)	292R	Ocean Avenue	Arterial	0.29	—
	388R	Patricia Bay Highway	Arterial	3.03	—
	389R	Lochside Dr. & Fifth St.	Arterial	1.67	—
	390R	Beacon Avenue	Arterial	0.53	—
	194B	Fifth St., Malaview Ave. & Resthaven Drive	Secondary	—	2.86
	207B	First St. & Beacon Ave.	Secondary	—	0.85
	228B	McDonald Park Rd. (E. half)	Secondary	—	0.40
SILVERTON (V)	443R	Vernon-Slocan Highway	Arterial	0.95	—
SLOCAN (V)	581R	Vernon-Slocan Highway	Arterial	0.07	—
SMITHERS (T)	781R	Yellowhead Highway	Arterial	4.15	—

Statement Showing Highways Classified as at March 31, 1985 (continued)

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km)	
				Arterial	Secondary
SPALLUMCHEEN (D)	806R	Vernon - Kamloops Highway	Arterial	6.10	—
	271R	Vernon-Sicamous Hwy.	Arterial	21.73	—
	299B	Pleasant Valley Road	Secondary	—	4.79
	171B	Armstrong-Salmon River Hwy.	Secondary	—	11.83
SPARWOOD (D)	448R	Corbin Road	Arterial	1.13	—
	724R	Southern Trans-Provincial Hwy.	Arterial	26.71	—
	755R	Elk Valley Road	Arterial	4.52	—
SQUAMISH (D)	399R	Darrel Bay Road	Arterial	0.32	—
	406R	Alice Lake Road	Arterial	0.58	—
	648R	Garibaldi Highway	Arterial	29.00	—
	649R	Squamish Valley Road	Arterial	5.25	—
	284B	Mamquam (Garibaldi Park) Rd.	Secondary	—	3.82
STEWART (D)	584R	Stewart-Meziadin Lake Hwy.	Arterial	17.06	—
SUMMERLAND (D)	770R	Okanagan Hwy.	Arterial	11.53	—
	302B	Prairie Valley Road	Secondary	—	7.19
	289B	Fish Lake Road	Secondary	—	1.74
SURREY (D)	114R	Campbell River Road	Arterial	1.61	—
	125R	Ladner-Langley Hwy.	Arterial	10.04	—
	139R	Scott Road	Arterial	11.33	—
	269R	Ladner-Langley Hwy.	Arterial	4.46	—
	314R	Old Yale Rd. & Bridge Rd.	Arterial	1.21	—
	371R	Vancouver-Blaine Hwy. & Interchanges	Arterial	22.93	—
	379R	Trans-Canada Hwy. & Interchanges	Arterial	22.56	—
	384R	King George Hwy.	Arterial	27.02	—
	385R	Fraser Hwy.	Arterial	14.08	—
	455R	Ladner-Langley Hwy.	Arterial	0.97	—
	554R	Pacific Highway	Arterial	19.20	—
	150B	Campbell River Road	Secondary	—	2.41
	151B	Marine Dr., Stevenson Rd. & Crescent Road	Secondary	—	9.25
	182B	152nd St. (Johnston Road)	Secondary	—	2.41
TAHSIS (V)		NIL			
TAYLOR (V)	601R	Alaska Highway	Arterial	4.41	—
	161B	Taylor-Peaceview Road	Secondary	—	1.53
TELKWA (V)	440R	Yellowhead Highway	Arterial	2.30	—
	749R	Telkwa High Road & Tyee Rd.	Arterial	1.11	—
	286B	Telkwa Coal Road	Secondary	—	1.60
	303B	Lawson Road	Secondary	—	0.75
TERRACE (D)	570R	Kalum Lake Road	Arterial	3.22	—
	595R	Yellowhead Highway	Arterial	5.95	—
TOFINO (D)	780R	Alberni-Tofino Hwy.	Arterial	9.01	—
TRAIL (C)	704R	Paterson-Rossland-Castlegar Highway	Arterial	2.02	—
	711R	Smelter Hill Road	Arterial	2.64	—
	789R	Rossland Ave., Victoria St., Columbia River Bridge, Bailey St., and Nancy Greene Lake-Rossland Meadows Hwy.	Arterial	8.25	—
	285B	Warfield Hill Road	Secondary	—	2.53

Statement Showing Highways Classified as at March 31, 1985 (continued)

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length (km) Arterial	Approximate Length (km) Secondary
TUMBLER RIDGE (D)	726R	Chetwynd–Tumbler Ridge Rd.	Arterial	29.00	—
	727R	Heritage Highway	Arterial	39.00	—
UCLUELET (V)	192R	Tofino–Ucluelet Road (Peninsula Rd. & Main St.)	Arterial	1.82	—
VALEMOUNT (V)		NIL			
VANCOUVER (C)	375R	Trans-Canada Highway	Arterial	1.56	—
VANDERHOOF (D)	778R	Yellowhead Highway	Arterial	25.10	—
	779R	Burrard Ave. & Loop Road	Arterial	6.12	—
	296B	Kenney Dam Road	Secondary	—	3.60
VERNON (C)	573R	Okanagan Highway	Arterial	6.41	—
	684R	Vernon–Slocan Highway	Arterial	2.85	—
	251B	Twenty-Seventh St.	Secondary	—	1.85
WARFIELD (V)	623R	Nancy Greene Lake–Rossland Meadows Hwy.	Arterial	2.59	—
WEST VANCOUVER (D)	89R	Marine Drive Addition	Arterial	0.16	—
	250R	Taylor Way	Arterial	1.13	—
	289R	Garibaldi Hwy.	Arterial	5.31	—
	372R	Marine Drive	Arterial	0.80	—
	613R	Trans-Canada Hwy. & Interchanges	Arterial	30.83	—
WHISTLER (R)	759R	Garibaldi Highway	Arterial	27.00	—
WHITE ROCK (C)	149B	Marine Drive	Secondary	—	5.02
WILLIAMS LAKE (C)	659R	Chilcotin–Bella Coola Hwy.	Arterial	3.12	—
	736R	MacKenzie Avenue	Arterial	7.40	—
	774R	Cariboo Highway	Arterial	6.09	—
ZEBALLOS (V)	196R	Zeballos Road	Arterial	1.61	—
			TOTALS	2,075.94	324.72

REPORT OF THE HIGHWAY SAFETY ENGINEER

J. Lisman, P. Eng.

During 1984 the Branch's improved capability to analyse accident patterns was matched by significantly increasing demands for this information from people inside and outside of the Ministry. Several important legal cases deriving from serious accidents led to weeks of detailed investigation and the preparation of technical evidence. While this work absorbed the time and energies of the staff, it served to clarify the legal extent of Ministry responsibilities in highway construction and maintenance for traffic safety.

The increasing volume of Branch correspondence led to the development of a computer system to keep track of items, and it is intended to expand this into a computer-aided filing system.

It was decided to recruit into the Branch a Project Engineer to analyse the accident data using computer programs to discern local accident patterns, diagnose faults, design improvements, and have these scheduled in the Ministry's annual construction cycle. A suitable person was found, although the newness of Highway Safety in engineering practice has meant that his early months have been spent learning the application of new techniques and processes.

Highway Safety Program works were carried out in each Region, totalling 40 sub-projects to up-grade places considered difficult or hazardous for road-users. Continuing the work of previous years, sub-projects provided shoulder walkways for school children attending rural schools. This program has shown increasing demand since more children are walking or cycling to school following the reduction of school busing in some areas.

In several places work was carried out to remove large utility poles which were too close to the edge of the roadway and this matches the changing design practice of locating these large poles a safe distance from traffic. There were improvements to intersections to reduce traffic conflicts, the most common being installation of left-turn slots.

On the southern part of Highway 99 the new deeper Thrie-beam guardrail was placed around exposed bridge piers in the grassed median. The Thrie-beam has been designed to accommodate the increasing height range of vehicles, from small compacts to higher pickup trucks, the bumpers of which could not always contact the shallower W-beam. The system may be extended along the centre of the median as traffic volumes grow.

Following a Court case a few years ago, the Ministry had eliminated downhill passing on three-lane hills as a precautionary measure, but this caused operational difficulties. A technical assessment was made of the criteria used to permit downhill passing. From this, an approved list for repainting was prepared and the Traffic Section coordinated the work. Monitoring of the accident record of repainted hills will continue and further changes will be made as they are needed.

The decision to construct the new Coquihalla route by 1986 stimulated technical consideration of design standards to ensure that the benefits of Highway Safety Engineering experience would be incorporated in the new freeway.

One interesting project carried out this year involved the "recycling" of a pedestrian bridge. A bridge which had served a school that had been closed was refurbished and placed over a busy intersection for use in the 1984/85 school session. The total costs were about one-third of a new structure, representing an economic use of resources.

The Highway Safety Engineer continued to serve on the Provincial Standing Committee on Traffic Safety, and the Federal-Provincial Committee dealing with Traffic Safety Programs. In February 1984 he attended the Ottawa meeting of European and North American safety specialists under the aegis of O.E.C.D., which discussed future opportunities for accident reduction through integrated Highway Safety Programs.

EXPENDITURES, FISCAL YEAR 1984/85

C0202	Roadside Hazard Elimination	$ 93,700.06
C0203	Intersection Improvements	83,594.97
C0204	School Route Improvements	191,194.57
C0205	General Safety Works	62,422.63
C0207	Kilometre Reference Markers	3,847.00
C0209	General Expenses	153,895.12
	TOTAL	$ 588,654.34

REPORT OF THE DIRECTOR OF CONSTRUCTION

N.R. Zapf

During the year ending March 31, 1985, the Construction Branch was responsible for administering 102 major projects. Total value of works under construction is about $485,000,000. Of these 109 projects, 31 were undertaken by day labour, six by a combination of day labour and contract, and the remaining 82 by contract. Twenty of the contracts continued from the previous year, while the remaining 62 were awarded in 1984. The total expenditure of the 1984/85 fiscal year is expected to be about $185,000,000. All of these statistics represent all time highs for the Branch and represents an extremely active year for both the Ministry and contractors.

Good progress occurred on almost all projects, even though a late spring and some early winter weather in mid fall did not favour grade construction. Favourable winter weather allowed construction to proceed, albeit slowed, on the accelerated Annacis Highway project and Coquihalla route. Good summer weather allowed many projects to be completed well ahead of schedule.

Work has now been completed on the Northeast Coal Development Road. Some slide stabilization on two projects was required to complete the highway. Completion of the highway now provides a fine access route to the new Tumbler Ridge townsite and coal fields. Total grading cost of the Northeast Coal grading project was $74,000,000.

Many urban projects were completed throughout the Province, or are advancing well, to improve the transportation infrastructure within and close to our major cities. Four-lane highway projects were completed in Prince George (Patricia Boulevard and the Highway 97 and Fifth Avenue Intersection), Quesnel (North Star Interchange), Kamloops (Halston Connector), Kelowna (Westbank Couplet, Harvey Avenue, (6-laning), Penticton (Penticton Channel Parkway), Haney (Highway 7, four-laning), Mission (Mission Roadwork), Marine Way through Burnaby and New Westminster, Cape Horn - Colony Farm Roadwork through Coquitlam and Port Coquitlam, Mount Seymour Parkway in North Vancouver, and Victoria (McKenzie) have all added greatly to urban traffic capacity and transportation network. Urban projects still underway are Vernon (Highway 97, 4-laning), Abbotsford (Beck Road Bypass) and the Mary Hill Bypass through Coquitlam and Port Coquitlam.

With coal traffic having begun in late 1983 from Northeast Coal, C.N.R. has much more traffic on its rail line from Prince George to Prince Rupert. Completed projects in Prince George and Burns Lake on Highway 16 has greatly aided local urban and highway traffic, and the completed Tyee project between Terrace and Prince Rupert will provide grade separation for traffic at a dangerous location.

Good progress on the new Annacis Highway route resulted from a major initiative to start all the highway grading projects this year. New contracts for dredging and soil stabilization were called this year, but most notably eight major grading and/or paving contracts were started this year. Many contracts were completed, mostly dredging or soil stabilization. Of particular note the pier island contract was completed on schedule, allowing the main bridge pier construction to start on schedule. There are now 11 active Annacis contracts and 12 contracts have been completed. Day Labour work has progressed well in the Queensborough, Cliveden and Nordel areas. Cliveden and Nordel Interchange areas are virtually complete. This year will see several large surcharge removal, gravelling, and paving contracts called as the project progresses on schedule. Completion is scheduled for late summer 1986.

Two contracts are nearing completion to construct control basins for debris torrents are Charles, Harvey and Magnesia Creeks along the Squamish Highway. When the contracts are completed, the constant threat to people and property in this area will now be virtually eliminated.

Without a doubt, the major initiative of the year was the Government's decision to accelerate the Coquihalla Highway construction. Constructing the Coquihalla Highway is a major project on a par with Trans-Canada Highway construction in the fifties and sixties. With the accelerated construction now well underway throughout the route, the Hope-Merritt section is scheduled for opening in mid-1986. As well, the Abbotsford-Hope projects will also be complete to give a four-lane freeway from Vancouver to Merritt. The next phase of the Coquihalla Highway from Merritt to Kamloops is scheduled for completion in 1987. Future plans call for a highway extension tc Peachland in the Okanagan Valley to complete the new transportation infrastructure.

A total of 37 new Coquihalla contracts were tendered in 1984/85. Another eight day labour projects are underway to make a total of 45 new projects started on the Coquihalla Highway. Future contracts will be tendered this year for the next phase.

The Coquihalla route proceeds through the Coastal Cascade Mountains by going up the Coquihalla River and Boston Bar Creek Valleys to a 1250 metre summit and then following the Coldwater River to Merritt. Construction through these narrow mountain valleys and along and over mountains represents a major construction and engineering challenge. Many river diversions, bridges, pipeline relocations are necessary to create a roadway alignment. Avalanches, earth slides and mud flows must ber prevented from affecting the completed freeway and hence major work is required to control, but also protect, nature. Construction must be undertaken with all possible environmental construction protection measures to ensure minimal impact on the environment especially the Fisheries resource and several fishery enhancement programs are included.

In completing the Hope-Merritt section by mid-1986, the Ministry and the contractors are putting forth a total effort to see the highway completed under such demanding conditions. Many contractors worked throughout the last winter to meet construction schedules.

Grading construction consists of construction of the highway grade and gravelling. Paving contracts will follow in late 1985 and 1986.

The following table gives a breakdown on contracts by type, being carried out this year:-

	Two-Lane	Four-Lane	Total
Urban Reconstruction/Relocation	2	6	7
Urban New Route	1	13	14
Rural Reconstruction/Relocation	5	5	10
Rural New Route	0	25	25
Other	0	0	25
	08	49	82

Grading Only	29	- Includes six Annacis contracts and 25 Coquihalla contracts
Grading and Paving combined	27	- Includes three Annacis contracts and five Coquihalla contracts
Other	25	- Includes 11 Annacis contracts and seven Coquihalla contracts

Total Annacis contracts = 19
Total Coquihalla contracts = 37

PROJECT SUMMARY AND DISTANCES

Number of Projects	109
Number of Contracts	82
Under construction	280
Two-lane road built	25
Four-lane road built	47
Two-lane paved	73

QUANTITIES

Clearing and Grubbing	1,515 ha
Excavation - Rock	1,955,000 m^3
Excavation - Other materials	15,100,000 m^3
Select granular Sub-base	490,000 t
Crushed Granular Base and Surfacing	1,780,000 t
Asphaltic Concrete	150,000 t

ANNACIS ROUTE, MAJOR PROJECTS 1984/85
(Projects are listed approximately from North to South)

Project Number	Location and Description	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
A. North End of Queensborough Bridge						
C-2380	Marine Way: Queensborough Bridge to Sixth Avenue	1.5	May/84		45	Grading and paving to realign and reconstruct Marine Way through New Westminster to handle Annacis traffic off the north end of Queensborough Bridge.
C-2381	Marine Way: Greenall - Queensborough Bridge	5.4	Sept/84		50	Gravelling and paving of Marine Way.
B. Queensborough Area (Lulu Island)						
C-2359	Queensborough, B.C. Hydro Rail Relocation	2.4	Oct/83	Oct/84	100	B.C. Hydro had a contract carried to relocate the B.C. Hydro railway in the Queensborough area. The Ministry is paying half. The rail relocation was necessary for throughfare and Loop Road to be constructed.
C-2410	Supply of Dredged Sand, Queensborough Area	—	Mar/84	Oct/84	100	Dredging of 800,000 m^3 of sand for road reconstruction on Lulu Island.
C-2413	Queensborough Industrial Loop Road	3.3	Dec/83	—	60	Grading and surcharging. Included are relocation of many utilities.
C-2597	Boundary Bridge Approach Fills	0.6	July/84	—	65	Grade construction and surcharge of approach fills. Includes hogfuel fill construction and sand surcharge.
C-2616	Ewen Avenue Paving	3.6	Sept/84	—	40	Repaving of Ewen and Pembina Streets in New Westminster. Included is some initial paving.
C-2618	Wick Drain Installation, Queensborough 1	—	May/84	Aug/84	100	Special foundation stabilization to allow high approach fill construction at Queensborough Bridge South end, Boundary Road O/P Bridge, Annacis East Channel Bridge.
C-2619	Wick Drain Installation, Queensborough 2	—	Nov/84	Mar/85	100	Installation at the future Howes and Westminster Interchanges to allow high fill placement.
C-2624	Gilley Sewer Relocation	—	Aug/84	—	10	Relocation of main GVRD sewer.
C-2625	Gilley Watermain Relocation	—	Aug/84	—	10	Relocation of Richmond's watermain.
C-2693	Mainline: Richmond Connector - Annacis East Channel Bridge	0.6	Sept/84	—	50	Grading and surcharging of high approach fill to Annacis Channel East Bridge. Includes hogfuel fill construction and sand surcharge.

ANNACIS ROUTE, MAJOR PROJECTS 1984/85 (continued)

Project Number	Location and Description	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-2856	Mainline: Queensborough Bridge - Boundary Road	2.4	May/84	—	90	Grading and surcharging using hogfuel and dredged sand.
C-2817	Richmond Connector	1.4	Nov/84	—	35	Grading and surcharging using hogfuel and dredged sand.
C-2930	Mainline: Boundary Road - Richmond Connector	0.8	Oct/84	—	20	Grading and surcharging.
C-2957	Wick Drain Installation, Queensborough 3	—	Feb/85	—	35	Wick drain installation along mainline to accelerate settlement.
C. Annacis Island Section						
C-1775	Annacis Island Grading	3.3	June/83	—	85	Grading of the Cliveden Interchange and Freeway on Annacis Island. Included was a B.C. Hydro rail relocation. Only a Fish Habitat reclamation remains to be constructed.
C-2342	Annacis Island, Sewer Relocation	—	June/83	—	30	Relocating a major GVRD sewer line to allow future grading.
C-2416	Annacis Island, Soil Densification	—	Feb/84	Aug/84	100	Special foundation strengthening under the main bridge north abutment and Annacis Channel Bridge south abutments to prevent failure due to earthquake.
C-2493	Annacis Island, Watermain Relocation		Jan/84	Feb/85	100	Relocating a major watermain to allow freeway grading.
C-2877	Annacis Island Gravelling and Paving	2.9	Feb/85	—	10	Gravelling and paving of Cliveden Interchange and Freeway.
D. South Side						
C-1583	Test Fill, Burns Bog	—	June/82	Dec/84	100	A test fill was constructed to decide how to construct main thoroughfare through deep bog areas.
C-1584	Hogfuel Supply	—	July/82	—	75	Supply of hogfuel for use in road construction throughout the Annacis project.
C-1593	Pier Protection Works and Dredging	—	Oct/83	July/84	100	Construction of sand island foundation for main Annacis Bridge structure. Involves dyke construction into Fraser River and then filling with sand.

ANNACIS ROUTE, MAJOR PROJECTS 1984/85 (continued)

Project Number	Location and Description	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-2451	Grading: South Approach Structure	0.7	Feb/83	June/84	100	Grading under the main bridge south approach structure. The main bridge south approach structure was started after the road underneath was surcharged and then graded.
C-2680	Tilbury Island Dredging	—	July/84	Oct/84	100	Sand was dredged from the Fraser River onto Tilbury Island for sand supply to the southern limits of the project.
C-2494	Mainline: South Abutment to Burns Bog and Nordel Interchange	2.5	June/84	Mar/85	100	Grading of the Nordel Interchange from previously stockpiled sand. Included was special surcharging of the main bridge south abutment.
C-2495	84 Connector: Nordel Bridge - BNR	0.7	Feb/84	—	70	Grading of a very soft peat area. Road is constructed of a hogfuel core and then sand surcharged. Settlements of up to 3 m (10 feet) will take place.
C-2617	Wick Drain Installation: 84th and 72nd Avenue Bridge Approach Fills	—	June/84	July/84	100	Installation to allow high approach fill construction.
C-2550	B.C. Hydro Tower Relocation	—	Apr/84	Feb/85	100	A B.C. Hydro Transmission Tower had to be relocated for mainline construction.
C-2620	Mainline: Nordel - 64th Interchange	2.6	July/84	—	60	Placing hogfuel and then previously dredged sand on grade including surcharging. Includes 72nd Avenue construction.
C-2770	72nd Avenue BNR Overpass Approach Fills	0.4	June/84	—	70	High approach fill construction with a hogfuel and sand to surcharge grade.
C-2679	Dredging: 64th Interchange	—	July/84	—	95	Sand is being dredged from the Fraser River to 64th Interchange. A novel system is being used where sand is dredged to Nordel Interchange and then conveyed to 64th Interchange (2 km).
C-2682	64th Interchange	1.7	Sept/84	—	15	Interchange grading of previously dredged sand. Includes utility relocation.
C-2689	Mainline: 64th Avenue - Highway 10 including BNI Relocation	5.2	Sept/84	—	65	Mainline and BNI relocation grading using hogfuel and dredged sand. Includes wick drain installation.
C-2786	BNI/BCR Relocation: Highway 10	2.6	Sept/84	—	75	Grading of new BNR and BCR grade using trucked sand from Tilbury.
C-3005	Mainline: Highway 10 - Highway 99	0.9	Feb/85	—	35	Stripping of grade for future grading.

GRADING CONTRACTS PROGRESS - GENERAL PROGRAM 1984/85

Project Number	Location and Description	Hwy. No.	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-0282	John Hart-Peace River Highway, Azouzetta Lake-Garbitt Tunnel	97	13.31	May/83	—	85	Reconstruction of Hart Highway. Includes paving.
C-0916	93 Mile-Little Fort, Reconstruction: Little Fort-Phinetta Lake	24	8.4	Apr/83	Oct/84	100	Large rock excavation & earth excavation project. Completes grading of Highway 24 connection.
C-1121	Marine Way, Construction: Byrne Road-Queensborough Bridge	—	2.7	Apr/82	—	95	Continuation of four-laning of Marine Way. Completion to preliminary gravel. Involves hogfuel highway construction. Many difficult utility relocations are completed.
C-1312	Elk Valley Highway, Construction: Sparwood - Cummings Creek Section	28	4.2	Oct/82	Sept/84	100	Reconstruction, including paving of Elk Valley Highway.
C-1563 -0004	Halston Connector: Halston Interchange to North Thompson Bridge	—	0.6	June/84	Sept/84	100	Grading and paving.
C-1563 -0005	Highway 5 and Halston Connector Road: (east side) Paving	5	8.3	June/84	Sept/84	100	Paving of Highway 5 and paving of the previously constructed east side of the Halston Connector.
C-1563 -0006	Tod Pit Aggregate Crushing			July/84	Oct/84	100	Aggregate crushing for Halston Crossing.
C-1684	Yellowhead Highway, Construction: Tyee C.N.R. Overpass and Approaches	16	3.1	June/83	Mar/85	100	Major rock excavation along Skeena River. Involved building into Skeena River.
C-1690	Lougheed Highway, Reconstruction: Part B: Haney-Albion Junction (240th St.) Part C: Kanaka Creek Bridge	7	4.2	Apr/83	Sept/85	40	Reconstruction, including paving of Lougheed Highway.
C-1710	Cariboo Highway, North Star Interchange and North Star Overpass	97	4.9	May/83	Aug/84	100	North Star Interchange and four-laning of Cariboo Highway. Paving and bridge construction was included.
C-1711	Construction: Part B: McKenzie Avenue Extension, Burnside Road to Douglas St.; Part C: Swan Creek Bridge; Part D: Carey Road Pedestrian Overpass	—	1.8	Apr/83	Aug/84	100	Four-laning of McKenzie Avenue in Victoria to directly connect Highway 1 to Highway 17. A pleasing urban facility with landscaping.
C-1723	Cassiar Highway, Construction: Cranberry Crossing No. 1 to Derrick Creek	37	18.6	May/83	July/84	100	Reconstruction and paving of Highway 37. Completes section from Highway 16 to Meziadin Junction.

GRADING CONTRACTS PROGRESS - GENERAL PROGRAM 1984/85 (continued)

Project Number	Location and Description	Hwy. No.	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-1725	Lynn Creek-Seymour River, Construction: Fern Street - Mount Seymour Parkway	—	3.7	May/83	July/84	100	Difficult urban project involving relocation of many utilities. Direct four-lane access from Highway 1 to Mount Seymour Parkway is now being used.
C-1743	Cape Horn-Pitt River Highway, Contract #5, Mary Hill Bypass, Stage 2, Roadworks Connector to Broadway	—	4.9	May/83	—	85	Four-laning of Mary Hill Bypass. Will complete Mary Hill Bypass. Only gravelling and paving remain to be done.
C-1744	City of Penticton, Highway 97, Penticton Channel Parkway, Stage II, Paving, Curb and Gutter, Storm Drainage	97	3.2	May/83	June/84	100	Completion of Penticton Channel Parkway.
C-1777 -0001	Beck Road Bypass: Stage 1: Gravelling and Paving	—	0.8	Oct/84	—	75	New four-lane route from Route 1A to Route 11 through Abbotsford to connect Trans Canada Highway traffic to Lougheed Highway.
C-1799 -0063	Abbotsford-Mission Highway, Lougheed Highway Intersection, Gravelling and Paving	11	1.0	Mar/84	July/84	100	Paving of final portion of Mission Roadworks. Completes Mission Roadworks project.
C-1815 -0001	Part I: Highway 97, Paving, Fifth Avenue Intersection; Part II: Highways Maintenance Yard, Gravelling & Paving; Part III: Highway 16, C.N.R. Overhead Approaches, Paving, West End of Fraser River Bridge	97 and 16	0.9	Oct/83	June/84	100	Paving reconstructed intersection of Highway 97 and Fifth Avenue in Prince George; paving of new Prince George Highways Yard; paving of new interchange at west end of Fraser River Bridge.
C-1841 -0001	Lougheed Highway, Gravelling and Paving, Cape Horn Interchange	7	5.3	Oct/83	Nov/84	100	Gravelling and paving of four-lane reconstruction of Lougheed Highway at Cape Horn, including feeder roads.
C-2135 -0001	John Hart-Peace River Highway: Bear Lake to Red Rocky Section	97	2.0	Aug/84	Oct/84	100	Paving of previously constructed grade.
C-2329 -0001	North Francois Highway, Burns Lake C.N.R. Overpass and Approaches	35	0.8	Oct/83	Dec/84	100	Provides new access from Francois Lake Road direct to Highway 16 through Burns Lake.
C-2431	Okanagan Highway 97, Gorman's Mill - Indian Reserve No. 9, Construction and Reconstruction	97	3.6	Mar/84	—	80	Four-laning through Westbank, including Westbank Couplet.

GRADING CONTRACTS PROGRESS - GENERAL PROGRAM 1984/85 (continued)

Project Number	Location and Description	Hwy. No.	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-2459	Okanagan Highway 97, Harvey Avenue, Kelowna, Okanagan Bridge - Pandosy Street, Reconstruction	97	0.8	Mar/84	June/84	100	Six-laning through Kelowna. Many utility relocations included.
C-2593	Squamish Highway 99, Harvey Creek and Magnesia Creek Debris Control Facilities	99	—	June/84	—	85	On Harvey Creek and Magnesia a dam and basin are being constructed to control the well known mud flows and protect life and property. The Village of Lions Bay main waterworks are being reconstructed to accommodate the construction.
C-2594	Squamish Highway 99, Charles Creek Debris Control Facility	99	—	June/84	—	80	A dam and basin on Charles Creek to control mud flows.
C-2819	Okanagan Highway 97, Bailey Road - Vernon, Reconstruction	97	11.1	Dec/84	—	15	A major excavation project to four-lane Highway 97 south of Vernon.

COQUIHALLA ROUTE
(Projects are listed approximately South to North)

Project Number	Location and Description	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
A. Abbotsford - Hope						
C-2906	Trans Canada Highway: Wahleach Power Station - Cheam View	4.9	Jan/85	—	10	Difficult grading and paving project through Jones Hill area involving pipeline relocations, hydro lines, bridges, and careful construction along the C.N. Railway.
C-2907	Trans Canada Highway: Cheam View - Jones Creek	5.7	Jan/85	—	5	Continuation of above. Also includes three large multiplate structures. Involves over 1,000,000 m^3 of excavation.
B. Hope - Merritt						
C-2662	Floods - Hope	3.7	June/84	—	70	Grading and paving for realignment and four-laning of Trans Canada Highway and Highway 3. Included is a major realignment of the C.N. Railway. Rail realignment was approved after strict environmental review.
C-2944	Hope - Summit	—	Nov/84	Mar/85	100	Coquihalla Access Road was kept open all winter to allow accelerated winter construction.
C-2768	Hope - Nicolum Creek	—	Aug/84	—	90	Clearing and grubbing.
C-2871	Hope - Nicolum Creek	8.4	Jan/85	—	10	Difficult grading and paving contract for realigning widening Highway 3 to four lanes. Two bridges and detours for stage construction are included.
C-3760	Nicolum Creek - Peers Creek	4.6	Mar/78	Mar/81	100	Completed.
C-0760	Peers Creek - Ten Mile Creek	5.1	June/84	—	65	Grading along Coquihalla River. Construction through the narrow Coquihalla Valley necessitated a river diversion under strict environmental control. Also used is a special high retaining wall known as reinforced earth to construct the highway between the river and mountains.
C-2686	Lear - 11 Mile: Detour Road	6	May/84	Aug/84	100	Reconstructing access road to allow construction from Peers Creek to Eleven Mile Creek.
C-2663	Ten Mile Creek - Sowaqua	3.3	June/84	—	60	Similar construction to C-0760. Included are two river diversions, reinforced earth retaining walls, and a debris torrent control structure.

COQUIHALLA ROUTE (continued)

Project Number	Location and Description	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-2683	Sowaqua - Ladner Creek	6.1	June/84	—	55	Grading along a wider section of the Coquihalla. Two river diversions are included.
C-2853	Ladner Creek - Shylock	2.7	Jan/85	—	5	Grading of the highway along mountain sidehill as the highway leaves the Coquihalla Valley to Boston Bar Creek Valley. Over 1,000,000 cubic metres of excavation in this short section.
C-2782	Shylock Pit: Aggregate Crushing	—	Sept/84	—	45	Crushing and stockpiling over 1,000,000 tonnes for neighbouring projects in the Ministry's biggest crushing contract ever. Also stockpiling of paving aggregate.
C-2854	Shylock - Portia	2.5	Jan/85	—	10	Continuing of mountain sidehill construction to Boston Bar Creek Valley. A major pipeline relocation as well as major retaining walls are necessary to construct the highway on the sidehill. Included are avalanche control works.
C-2810	Portia - Miranda	3.0	Sept/84	—	40	First grading contract proceeding up Boston Bar Creek Valley. To construct a highway in the narrow and steep side mountain valley it was necessary to relocate an existing pipeline and divert Boston Bar Creek several times. Due to poor soils the grade is being built mostly of borrow. Included are avalanche control works and two precast concrete culverts.
C-2810 -0001	Portia - Box Canyon: Supply of Precast Concrete Culverts	—	Jan/85	—	50	Good progress.
C-2811	Miranda - Box Canyon	3.7	Sept/84	—	25	Continuation of C-2810 up Boston Bar Creek and similar construction. Over 1,300,000 cubic metres of excavation over this short section. Includes a precast concrete culvert. Mostly borrow excavation for grade.
C-2812	Box Canyon - Great Bear #5	3.3	Sept/84	—	35	Next in the Boston Bar Creek Valley projects. Over 1,000,000 cubic metres of excavation. Includes two major multiplate structures.
C-2813	Great Bear #5 - Summit	4.9	Sept/84	—	45	Last project up Boston Bar Creek Valley. Soils are so poor some borrow is required from rock quarries. Includes two major multiplate structures.

COQUIHALLA ROUTE (continued)

Project Number	Location and Description	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-4478	Summit - Dry Gulch	4.5	July/80	Oct/82	100	Completed.
C-0579	Dry Gulch - Mine Creek	9.3	June/83	Nov/84	100	Large earth moving job completed under strict environmental control. Marks the highway's descent from the Summit along the Coldwater River to Merritt.
C-2896	Provide Power to Coquihalla Lakes and Great Bear Snowshed	—	Sept/84	—	10	Extending power up the Coldwater Valley to provide power to interchange, future maintenance camps, Toll Booth Plaza, and Great Bear Snowshed.
C-2761	Coldwater Pit: Aggregate Crushing	—	Aug/84	—	65	Paving aggregate crushing and stockpiling.
C-2694	Mine Creek - Juliet	6.0	Aug/84	—	45	Continuation of Project C-0579 down the Coldwater Valley. As with the Coquihalla River, the Coldwater River has been diverted under strict environmental controls. Included was a major rock excavation for Dry Gulch Bridge. A major pipeline relocation was also required.
C-2825	Juliet - Coldwater Crossing #3	6.6	Aug/84	—	45	Next grading project down the Coldwater Valley to Merritt. Mostly a major borrow project with six pipeline relocations. Included are six bridge approach fills constructed the Coldwater River under tight environmental control.
C-2772	Juliet Pit: Aggregate Crushing	—	Aug/84	Nov/84	100	Aggregate crushing and stockpiling for neighbouring projects.
C-2851	Coldwater Crossing #3 - Larson Hill	—	July/84	Nov/84	100	Clearing and grubbing.
C-2852	Coldwater Crossing #3 - Larson Hill	—	Jan/85	—	5	A major grading project continuing along the Coldwater Valley. Six bridge approaches were constructed close to the Coldwater Valley. A novel feature is inclusion of salmon rearing ponds.
C-2827	Brodie Pit: Aggregate Crushing	—	Aug/84	—	70	Aggregate crushing and stockpiling for neighbouring projects.
C-2831	Larson Hill - Coldwater Crossing #6	4.3	Jan/85	—	40	A major grading project involving over 1,000,000 cubic metres of excavation including 400,000 cubic metres of rock excavation. Three pipeline relocations were required.

COQUIHALLA ROUTE (continued)

Project Number	Location and Description	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-2834	Coldwater Crossing #6 - Hydro Crossing	6.4	Jan/85	—	20	The highway crosses the Coldwater River to the eastern slope of the Coldwater Valley for the remainder of the route to Merritt. A major grading project involving over 1,300,000 cubic metres of excavation of which 600,000 are rock. Included are three pipeline crossings and two major multiplate structures.
C-2835	Hydro Crossing - Glenwalker	—	July/85	Nov/85	100	Clearing and grubbing.
C-2844	Hydro Crossing - Compressor Station	2.9	Nov/84	—	15	A continuation of highway grading along eastern slope of Coldwater Valley.
C-2843	Compressor Station - Salem Creek	2.8	Nov/84	—	40	A small grading project being a continuation of the previous project.
C-2840	Salem Creek - Glenwalker	4.7	Jan/85	—	25	A moderate grading project continuing towards Merritt.
C-2841	Glenwalker - Kwinshatin Creek	3.5	Nov/84	—	55	Mostly an earthworks project.
C-2783	Rusty Pit: Aggregate Crushing	—	Aug/84	Nov/84	100	Paving aggregate crushing and stockpiling.
C-2839	Kwinshatin Creek - Trans Mountain Pipeline	6.3	Jan/85	—	15	A major grading project involving over 1,500,000 m^3 of excavation. Included are two major multiplate structures.
C-2837	Trans Mountain Pipeline - Highway 5A Interchange	3.2	Nov/84	—	35	A medium earthworks project completes the Coquihalla Highway along the Coldwater Valley. At the end of the project the highway enters the Nicola Valley. A major multiplate structure is included.
C-2838	Merritt Bypass	5.0	Jan/85	—	25	The Coquihalla Highway leaves the Coldwater Valley to cross the Nicola Valley just to the east of Merritt. Three bridges and two major multiplate structures are included.
C-2816	Godey Pit: Aggregate Crushing	—	Sept/84	Mar/85	100	Crushing and stockpiling over 700,000 tonnes of aggregate for use on neighbouring projects. Also stockpiling of paving aggregates.

COQUIHALLA ROUTE (continued)

Project Number	Location and Description	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C. Merritt - Kamloops						
C-2891	Merritt - Shuta Creek	8.9	Jan/85	—	5	A large earthworks project following the Nicola Valley north to the confluence of the Nicola and Clapperton Valleys. Included are two large multiplate structures.
C-2878	Tote Road: Shuta Creek - Surrey Lakes	—	Sept/84	Dec/84	100	A tote road was constructed up the Clapperton Valley to the Surrey Lakes, to allow access for engineering survey crews.
C-2874	Kamloops: Hwy. 1 and 5A Interchange	2.0	Feb/85	—	10	Interchange construction to handle Coquihalla traffic in 1986. A difficult project in a congested area as it includes many utility relocations. Included is grading, electrical and paving.
D. Coquihalla General						
C-2917	Avalanche Works	—	Apr/84	—	50	A two year program of avalanche engineering for highway design and future highway operation.
C-2889	Guardrail Purchase	—	Nov/84	—	10	Advance manufacturing and stockpiling of 175 km guardrail for rapid placement after paving.
C-2904	Filter Cloth Purchase	—	Sept/84	Nov/84	100	Advance purchase and stockpiling of large filter cloth amounts for rapid use.

REPORT OF THE DIRECTOR OF PAVING

O.R. Tisot, P. Eng.

During the 1984/85 fiscal year, the Paving Branch administered work on 34 capital paving projects as well as four day labour projects. Of the 34 capital projects, 11 were carried forward from 1983 and completed this year, and 26 were tendered during 1984/85 (16 of these were completed; work commenced on seven in 1984/85, with completion scheduled for 1985/86 and three projects have been tendered and/or awarded).

Projects carried over from 1983/84 and completed in 1984/85		11
Projects tendered in 1984/85:		
- completed	16*	
- incomplete - work in progress (1985 completion)	7	
- to be commenced (1985 completion)	2	
- to be commenced (1986 completion)	1	
Total tendered in 1984/85	26	26*

* (of these projects, 13 were minor contracts tendered locally, and administered by Branch personnel. Some involved only paving of shoulders, widened areas, or preparation of grade for paving).

228.05 km of road (243.19 km of 2-lane equivalent) were surfaced with asphalt pavement during the year under Paving Branch contracts. This includes 117.44 km of resurfacing or repaving of existing paved alignments, as well as 110.61 km of new pavement. In addition to work performed under contract, Paving Branch surfacing operations crews applied 388.8 km (423.1 km of 2-lane equivalent) of surface seals.

Paving this year included the completion of work on the Chetwynd-Tumbler Ridge Highway. These projects (S-1812, S-1813 & S-1814) had been commenced in 1983/84 using sulphur extended asphalt (SEA) for the paving mix. Elemental sulphur, supplied hot in liquid form, was used to replace a significant portion (up to 25%) of the asphalt cement binder used in the mix. Although the use of sulphur results in higher contract bids due to increased equipment requirements by the contractor, net savings can be realized as long as the market price of sulphur remains low. This year, however, increases in the price of sulphur on one project (S-1812) eclipsed anticipated savings and its use on that project was discontinued. Sulphur extended asphalt was used to complete projects S-1813 and S-1814. The use of SEA had been considered for one additional project (S-1678 in the Tete Jaune area) for open-graded stabilized base mix as well as top lift paving. The use of SEA in the open-graded base course was discontinued when it was determined to be unsuitable due to the low viscosity of the binder being unable to develop an adequate bond between the coarse aggregate particles. SEA was used to complete the surface course on this job.

Two projects (S-2814 and S-2815) were tendered this year with alternative bid prices for conventional asphalt mix and SEA mix: the higher bid prices for mixing and placing SEA pavement coupled with the higher binder requirement and increased supply prices for elemental sulphur, rendered the SEA option highly uneconomical, resulting in the selection of the conventional asphalt mix option.

Paving this year also included the paving of the 108 Mile Airport, the Elk River Valley Airport and the resurfacing of the McBride Airport on behalf of the Air Transport Assistance Program. In addition, the Branch administered work undertaken on a Day Labour basis to upgrade the Campbell Hill Airport (Cache Creek) and prepare it for paving, also on behalf of the Air Transport Assistance Program.

Tenders were called for the first of five projects which will cover the paving of the new Coquihalla Highway between Hope and Merritt. Paving Project S-2965 extends from Nicolum Creek to Ladner Creek. Work will commence in the summer of 1985, with completion specified for May 31, 1986.

Of the projects tendered this year for completion in 1985/86, three are located in the Highland Valley and Logan Lake areas, and will upgrade access routes to the Coquihalla Highway. Crushing work on one of these projects has been completed, and paving will be undertaken in the 1985/86 fiscal year, while work on the others is expected to start in 1985/86. Work on two major curb and gutter construction projects is underway in the Kelowna area and excavation and storm sewer installation is in progress on both projects. No paving on these projects will be undertaken until 1985/86 fiscal year.

As well as administering its own projects, the Paving Branch was also involved in the administration of six projects tendered by the Construction Branch for crushing of base and paving aggregates for the Coquihalla Highway. Of these, two have been completed to date. The paving portions of 17 other construction projects were administered by the Paving Branch. In addition, technical guidance was extended to Highway Maintenance Districts in administering numerous minor paving contracts.

MATERIALS USED/WORK PERFORMED UNDER CONTRACT

Description	Unit		Quantity
Excavation:			
Common Excavation	m^3		24,991
Foundation and Trench Excavation	m^3		2,500
Aggregates:			
Select Granular Base	t		50,832
Crushed Granular Base	t		111,845
Crushed Granular Surfacing	t		154,227
Crushed Shoulder Aggregate	t		86,858
Crushed Aggregate in Stockpile	t		8,733
Asphalt Pavement:			
Asphalt Concrete Pavement (AC)	t	297,200	
Sulphur Extended Asphalt Pavement (SEA)	t	125,312	
Asphalt Concrete Stabilized Base (AC)	t	80,735	
Sulphur Extended Stabilized Base (SEA)	t	20,470	
Asphalt Concrete Pavement (Total)	t	523,717	523,717
Asphalt Mix f.o.b. Plant:			
Asphalt Concrete Mix f.o.b. Plant (AC)	t	5,328	
Sulphur Asphalt Mix f.o.b. Plant (SEA)	t	1,782	
Asphalt Mix f.o.b. Plant (Total)	t	7,110	7,110
Drainage Facilities:			
Asphalt Curb	m		22,298
Portland Cement Curb and Gutter	m		285
Portland Cement Curb	m		620
Portland Cement Sidewalk	m^2		0
Concrete Pipe Installed	m		4287
Corrugated Metal Pipe Installed	m		1,601
Asphalt Products:			
Asphalt Cement – Liquid	t		25,704
Cutback Asphalt	L		1,262,938
Emulsified Asphalt	L		30,677
Sulphur – Liquid	t		3,764
Milling	m^2		16,325
Patch Mix in Stockpile	t		0
Concrete Barriers:			
New 690 mm Barrier Installed	m		1,104
New 450 mm Barrier Installed	m		0
Remove and Install Existing Barrier (690 or 457 mm)	m		2,640

MATERIALS USED/WORK PERFORMED BY DAY LABOUR

Common Excavation	m^3	41,401
Select Granular Base	t	42,542
Crushed Granular Base	t	769
Crushed Granular Surfacing	t	12,578
Asphalt Concrete Pavement	t	368
Asphalt Cement	t	19
Milling	m^2	131,574

MATERIALS USED BY PAVING BRANCH SURFACING OPERATIONS CREWS

Crushed Surfacing Aggregate	m^3	52,131
Crushed Sand	m^3	73
Cutback Asphalts	L	8,710
Emulsified Asphalt (SS-1)	L	204,060
High Float Emulsified Asphalts	L	6,142,243
Asphalt Patch Mix	m^3	38
Calcium Ligno-sulphonate	L	122,184

PAVING CONTRACT SUMMARY

Project Number	LOCATION & DESCRIPTION (Type of Work)	Contractor	Total Length As Constructed	2-Lane Equivalent	Length Completed This Year		Remarks
					Actual Length	2-Lane Equivalent	
Contracts Awarded Prior to the 1984/85 Fiscal Year							
S-1678	HWY. 16 (YELLOWHEAD): LEE ROAD - FRASER RIVER BRIDGE & MISC. ROADS (SEA Stabilized Base & SEA Paving)	Midvalley Construction Ltd.	51.10	51.50	48.30	48.70	Complete (Lengths shown exclude Airport facility.)
S-1705	A. HWY. 97: KITWANCOOL NORTH B. KITWANCOOL ACCESSES & STREETS (Base Preparation & Paving)	Midvalley Construction Ltd.	47.10	47.10	0	0	Complete
S-1729	HWYS. 1 & 97 in CACHE CREEK (Storm Sewer, Curb & Gutter & Paving)	Argo Industries	1.72	4.15	0.06	0.30	Complete
S-1737	HWY. 16: BURNS LAKE TO TINTAGEL & HWY. 35: BURNS LAKE HIGHWAYS DISTRICT (Granular Surfacing & Paving)	Grandview Blacktop Ltd.	25.25	27.60	0	0	Paving completed in 1983/84. (Spray treatment of shoulders only this year.)
S-1742	HWY. 19 (ISLAND HWY.): COURTENAY TO BLACK CREEK BRIDGE & MISCELLANEOUS ROADS (Granular Base & Surfacing, Milling & Paving)	Winvan Paving Ltd.	20.20	32.04	12.20	14.33	Complete
S-1751	HWY. 7 (LOUGHEED): STAVE RIVER TO MISSION (Shoulder Build-Up & Paving)	Grandview Blacktop Ltd.	9.90	7.90	4.58	4.83	Complete
S-1752	HWY. 37: NASS RIVER TO HANNA CREEK & STEWART-MEZIADIN HWY.: MEZIADIN TO SURPRISE CREEK (Granular Surfacing & Paving)	West Coast Paving Ltd.	46.31	45.70	32.51	31.90	Complete
S-1763	KALUM LAKE ROAD (Granular Base, Surfacing & Paving)	Venture Paving Ltd.	51.16	51.16	40.82	40.82	Complete
S-1812	CHETWYND-TUMBLER RIDGE HWY: MARTIN CR. TO GWILLIM LAKE PARK BDY. (Granular Base Surfacing, SEA Stabilized Base & SEA Paving)	Leduc Paving Ltd.	27.41	36.64	15.25	20.03	Complete

PAVING CONTRACT SUMMARY (continued)

Project Number	LOCATION & DESCRIPTION (Type of Work)	Contractor	Total Length As Constructed	2-Lane Equivalent	Length Completed This Year		Remarks
					Actual Length	2-Lane Equivalent	
Contracts Awarded Prior to the 1984/85 Fiscal Year (continued)							
S-1813	CHETWYND-TUMBLER RIDGE HWY: GWILLIM LAKE PARK BDY. TO BULLMOOSE CREEK BRIDGE (Granular Surfacing, SEA Stabilized Base & SEA Paving)	Columbia Bitulithic Ltd.	33.43	45.69	16.71	22.85	Complete
S-1814	CHETWYND-TUMBLER RIDGE HWY: BULLMOOSE CREEK BRIDGE TO QUINTETTE ACCESS ROAD (Granular Surfacing & SEA Paving)	Columbia Bitulithic Ltd.	24.72	26.56	12.36	13.28	Complete
Contracts Tendered in 1984/85 Fiscal Year (awarded unless otherwise noted)							
S-2657	ELK RIVER VALLEY AIRPORT & HWY. 43, SPARWOOD (Base Preparation & Paving)	Grandview Blacktop	0.77	0.77	0.77	0.77	Complete (Lengths shown exclude Airport facility)
S-2695	108 MILE AIRPORT (Granular Base, Surfacing & Paving)	Cantex Engineering	N/A	N/A	N/A	N/A	Complete (Airport facility only, lengths not applicable.)
S-2765	HWY. 33 & RUTLAND ROAD (Storm Sewer, Curb and Gutter & Paving)	Peters Bros. Paving	5.16	9.50	0	0	Continuing (Excavation and underground installation in progress.)
S-2806R	HWY. 1 & HWY. 23: MISCELLANEOUS PATCHING (Priming & Paving)	Columbia Blacktop	1.93	1.93	1.93	1.93	Complete
S-2814	HWY. 5: MERRITT DISTRICT BOUNDARY TO JCT. HWY. 1 AT KAMLOOPS (Base Preparation, Milling & Paving)	Dawson Construction	35.80	40.20	0	0	Continuing
S-2815	HWY. 5: UPPER NICOLA TO PETER HOPE LAKE ROAD (Base Preparation, Levelling & Paving)	H. Williamson Blacktop	18.05	18.05	16.20	16.20	Continuing
S-2862	INVERMERE ARTERIAL HWY. #674-R (Milling, Levelling & Paving)	Okanagan Aggregates	3.86	4.80	2.13	2.13	Continuing

PAVING CONTRACT SUMMARY (continued)

Project Number	LOCATION & DESCRIPTION (Type of Work)	Contractor	Total Length As Constructed	2-Lane Equivalent	Length Completed This Year		Remarks
					Actual Length	2-Lane Equivalent	
Contracts Tendered in 1984/85 Fiscal Year (awarded unless otherwise noted) (continued)							
S-2887	HWY. 16 AT TYEE (Granular Surfacing & Paving)	West Coast Paving Ltd.	3.10	3.10	1.55	1.55	Continuing
S-2912	HARVEY AVENUE - KELOWNA: PANDOSY STREET TO PRINCESS STREET (Storm Sewer, Curb and Gutter & Paving)	Midvalley Construction Ltd.	1.76	1.76	0	0	Continuing (Excavation and underground installation in progress.)
S-2920	MEADOW CREEK ROAD: LOGAN LAKE TO LAC LE JEUNE (Shoulder Build-Up, Levelling & Paving)	Dawson Construction	23.40	23.40	0	0	Continuing (Crushing completed.
S-2921	HIGHLAND VALLEY ROAD: BETHLEHEM MINE ACCESS ROAD TO LOGAN LAKE (Shoulder and Base Preparation, Levelling & Paving)	Peters Bros. Paving (1981) Ltd.	13.20	13.20	0	0	Continuing
S-2922	HIGHLAND VALLEY ROAD: ASHCROFT TO THE HIGHLAND VALLEY TRAILER PARK (Shoulder and Base Preparation, Levelling & Paving)	Peters Bros Paving (1981) Ltd.	18.95	23.85	0	0	Continuing
S-2965	COQUIHALLA HIGHWAY: NICOLUM CREEK TO LADNER CREEK (Paving and Barrier Installation)		20.15	49.86	0	0	Tendered 1984/85 fiscal year. Awarded 1985/86.
S-0086-6201	HWY. 1: DOUGLAS STREET, SAANICH ROAD TO TOLMIE AVENUE, HWY. 1: NORTH OF THETIS LAKE OVERPASS - NORTHBOUND LANES ONLY (Paving)	Hub City Paving	1.03	1.38	1.03	1.38	Complete
S-0086-6202	HWY. 1: GOLDSTREAM ROAD NORTHWARDS (Paving)	Capital Asphalt	2.18	2.57	2.18	2.57	Complete
S-0086-6301	PARKSVILLE AREA MISCELLANEOUS ROADS (Paving)	Hub City Paving	4.21	4.21	4.21	4.21	Complete
S-0086-6401	COURTENAY AREA MISCELLANEOUS ROADS (Paving)	Tayco Paving	2.60	2.60	2.60	2.60	Complete

PAVING CONTRACT SUMMARY (continued)

Project Number	LOCATION & DESCRIPTION (Type of Work)	Contractor	Total Length As Constructed	2-Lane Equivalent	Length Completed This Year		Remarks
					Actual Length	2-Lane Equivalent	
Contracts Tendered in 1984/85 Fiscal Year (awarded unless otherwise noted) (continued)							
J-1427	SHOULDER PAVING: IOCO AREA (Shoulder Paving)	Winvan Paving	N/A	N/A	N/A	N/A	Complete (Shoulder paving only.)
J-1428	PAVING: KENSINGTON OVERPASS NORTH APPROACH (Paving)	Winvan Paving	0.14	0.29	0.14	0.29	Complete
J-1429	SHOULDER PAVING: KING GEORGE HIGHWAY, SOUTH OF HWY. 10 (Shoulder Paving)	Columbia Bitulithic	N/A	N/A	N/A	N/A	Complete (Shoulder paving only.)
J-1430	SHOULDER WIDENING: HWY. 10 @ 180TH STREET (Shoulder Widening)	Fraser Valley Aggregates	N/A	N/A	N/A	N/A	Complete (Grade widening only, no paving.)
J-1432	SHOULDER PAVING: HWY. 10 WEST OF 192ND STREET (Shoulder Widening)	Winvan Paving	N/A	N/A	N/A	N/A	Complete (Traffic islands and shoulders only.)
J-1141A	BRITTANIA TO SQUAMISH PATCH PAVING (Paving)	Columbia Bitulithic	2.85	2.85	2.85	2.85	Complete
J-1141B	LIONS BAY TO BRITTANIA PATCH PAVING (Paving)	Columbia Bitulithic	5.47	5.47	5.47	5.47	Complete
J-1820Z	MORRIS VALLEY ROAD (Paving)	Imperial Paving	2.40	2.40	2.40	2.40	Complete
J-1545C	HWY. 1: MARSHALL CREEK BRIDGE TO "C" STREET (WESTBOUND LANES) (Paving)	Imperial Paving	1.80	1.80	1.80	1.80	Complete
TOTAL LENGTH PAVED 1984/85 FISCAL YEAR					228.05	243.19	

PAVING CONTRACT SUMMARY (continued)

Project Number	LOCATION & DESCRIPTION (Type of Work)	Contractor	Total Length As Constructed	2-Lane Equivalent	Length Completed This Year		Remarks
					Actual Length	2-Lane Equivalent	
Day Labour 1984/85 Fiscal Year							
0-0084-4211	HWY. 97 BARKERVILLE JUNCTION TO PLETT ROAD (Milling)	"Day Labour Basis"	11.0	11.0	N/A	N/A	Complete (Milling only no paving.)
S-2861	CAMPBELL HILL AIRPORT - CACHE CREEK (Base construction and gravelling)	"Day Labour Basis"	N/A	N/A	N/A	N/A	Airport facility upgrading.
J-1431	ROAD BASE REPAIR: HWY. 15 @ 40TH AVENUE (Miscellaneous Full-Depth Patches)	"Day Labour Basis"	N/A	N/A	N/A	N/A	Complete (Miscellaneous patching only.)
J-1433	SHOULDER PAVING: HWY. 1 INTERCHANGES (Pave Parking Areas @ 160th and 200th Street Interchanges)	"Day Labour Basis"	N/A	N/A	N/A	N/A	Complete (Parking areas only.)

SEALCOATING WORK BY PAVING BRANCH OPERATIONS CREWS (S-0084)

Electoral District	Job Number	Highways District	Location	Actual Length Sealed (km)	km Sealed (2-Lane Equivalent)	Remarks
Yale-Lillooet	1501	Chilliwack	Highway 3: Nicolum Creek to Skaist Creek, East of Hope	N/A	N/A	3.8 lane km milled only.
Nelson-Creston	3911	Creston	Highway 3: Canyon Street (Creston City Boundary) to Walker Bridge (Goat River)	58.0	58.0	Complete
Nelson-Creston	3912	Creston	Highway 3A: Sanca Creek Bridge to Highway 3 junction at Creston	38.9	38.9	Complete
Nelson-Creston	3913	Creston	Highway 3: Salmo-Creston (Skyway)	63.7	86.0	Complete
North Island	6401	Courtenay	Highway 19: Sayward to Eve River Bridge	18.5	18.5	9.0 km to be completed in 1985.
Nelson-Creston	3111	Creston	Highway 6: Nelson - Euphrates	18.3	18.3	Complete
Okanagan North	3412	New Denver	Highway 6: From West Boundary of New Denver Highways District, proceeding eastward	8.4	12.6	Complete. Double seal on gravel surface.
Nelson-Creston	3411	New Denver	Hot Spring Road, Nakusp Area from Highway 23 junction eastward	13.8	13.8	Complete. Base stabilization with calcium lignosulphonate & SS-1 emulsion, followed by surface seal.
Cariboo	2711	100 Mile House	Kelly Lake Road, Clinton	17.4	17.4	Complete
Prince George North	4109	Prince George	Highway 97: Chief Lake Road to Ferguson Road	5.3	5.3	42.0 km to be completed in 1985.
Prince George South	4111	Prince George	Highway 16E Old Highway 97 Jct. to Giscome Road	18.5	22.0	Complete
Prince George South	4112	Prince George	Giscome Road: Giscome to Upper Fraser	38.4	38.4	Complete

SEALCOATING WORK BY PAVING BRANCH OPERATIONS CREWS (S-0084) (continued)

Electoral District	Job Number	Highways District	Location	Actual Length Sealed (km)	km Sealed (2-Lane Equivalent)	Remarks
Cariboo	4712	Williams Lake	Likely Road: 150 Mile House Northward	18.6	18.6	Existing pavement heat profiled and sand sealed. To be graded sealed in 1985.
Atlin	5311 A&B	Dease Lake	Hwy 37: Blue River Bridge to Yukon Boundary	45.3	45.3	Complete. Double seal on gravel surface.
Omineca	5511	Burns Lake	Highway 16: Topley to Forest Dale Road	14.0	16.0	Complete
Omineca	5512	Burns Lake	Highway 16: Burns Lake to Tintagel	11.7	14.0	Complete
TOTAL (Sealcoating)				388.8 km	423.1 km	

REPORT OF THE LANDS SURVEY OFFICER

F.A. Clapp

This fiscal year a total of 105 survey projects were carried out using funds from the Legal Survey, Construction and Paving project votes.

The length of highway rights of way legally surveyed totalled 302 km. In addition, surveys were undertaken to replace survey monuments destroyed during construction, to prepare subdivision plans for gravel pits and yard sites, and to arrange for drainage easements.

During the year a total of 290 plans were processed and of this number 141 were forwarded to the Land Titles Offices for registration.

EXPENDITURES

Legal Survey Vote	$379,885.63
Construction Project Vote	$147,103.76
Paving Branch Votes	$ 17,282.20
TOTAL	$544,271.59

REPORT OF THE DIRECTOR OF MAINTENANCE SERVICES

J.L.S. Buckle

1984 came in with a vengeance in the eastern Fraser Valley when heavy warm rains and a melting snowpack on January 3-5 combined to cause very extensive flooding and slides. The Trans Canada Highway was closed for three days between Bridal Falls and Hope as a result of a very large debris flow which severely damaged the Two Mile Bridge and completely covered the highway with rock and debris. Highway 7 and other roads in the area were also closed due to flooding and erosion for various periods. Total flood/debris flow repairs to Ministry roads and bridges in the Chilliwack District totalled almost $2,500,000.

Minor flooding and erosion occurred throughout the Province during the spring. On June 29, 1984, an unusually heavy overnight rain created a number of slides and washouts along Highway 6 south of Nakusp. Several creeks eroded their channels to bedrock, leaving deposits of rock and gravel on the highway totalling over 80,000 m^3, and a 4.5 m pipe arch washed out cutting a 30 m gap in the highway. The highway was re-opened five days later at a cost of $132,000.

Torrential rains in October caused a variety of small washouts in several District, notably on the coast and in the Prince George area. The "Thanksgiving Flood" of October 8th saw extensive flooding throughout the Squamish and Pemberton Valleys. Although access was restored to most areas within two or three days, damage to roads and bridges alone totalled $629,000.

The total cost to restore Provincial highways as a result of flooding, slides, washouts and debris torrents in 1984 was approximately $5,000,000.

SNOW AVALANCHE SECTION

Avalanche activity affecting highways was above average in the Province this season due to heavy snowfalls and periods of low temperatures.

The snow avalanche management program continues to grow throughout the Province, with the expansion of the avalanche operation for the construction of the Coquihalla Highway and development of an operational control program for implementation once the highway opens.

The snow and weather reporting network consisted of over 110 stations this season, with data available twice daily from about 80 stations. This represented both an increase in the number and type of observation taken.

Upgrading and maintenance of avalanche search and rescue programs throughout the Province continued, with the establishment of additional stores of rescue equipment where required, and the training of Ministry personnel in search and rescue procedures. Training of maintenence personnel in avalanche awareness and safety remains a key section of the program, with about 200 staff attending various types of training sessions this past season.

MAINTENANCE MANAGEMENT PROGRAM

The 1984-85 Provincial Road and Bridge Maintenance funding was $184,771,000, of which $177,072,400 was distributed via the Performance Budget. The remainder was allocated as follows:

Headquarters Road Maintenance charges	$ 6,314,000
Maintenance Services Branch	300,000
Snow Avalanche Section	375,000
Headquarters Bridge Maintenance charges	700,000
	$ 7,699,000

The Performance Budget was derived from an inventory of maintainable features, some of which were as follows, showing increasing work program requirements:

	1982/83	1983/84	1984/85
Km Road	44,749 (+2.0%)	45,213 (+1.0%)	45,395 (0.4%)
LN-KM Pavement	38,893 (+1.3%)	40,666 (+4.6%)	40,977 (0.8%)
Culverts	151,442 (+3.2%)	156,443 (+3.3%)	158,272 (1.2%)
Sign Posts	92,866 (+3.0%)	96,978 (+4.4%)	97,520 (0.6%)
Dust Sites	18,905 (+1.5%)	20,861 (+10.3%)	21,927 (5.1%)

As Maintenance Program funding was reduced slightly from 1983-84, and as the overall work program requirement had clearly increased, service levels in a number of activities were reduced. Some of these reductions were in regravelling, mowing, timber deck repair and equipment hauling, with lesser reductions throughout the work program.

Efforts were again made to follow through from budgets and create work plans and schedules. As staff reductions also took place during the previous year as part of the restraint program, these schedules assisted in achieving the planned level of service outlined in the Performance Budget.

By December, 1984 a review of the systems supporting the Maintenance Management Program had begun. Enhanced materials management via separate Stock Managements systems was, and continues to be, investigated in addition to local systems on available computer hardware. The latter may allow sophisticated localized work program planning and scheduling on an ongoing basis which would be of far greater benefit to local Managers and supervisors than present Ministry systems.

The Maintenance Management Program continues to provide management with reports on operations to assist in budget distribution, ongoing financial distribution/reconciliation and work program planning at the Provincial Regional and District level.

MAINTENANCE OPERATIONS

A smaller minor betterment program was created from headquarters maintenance funds for about $2,000,000 in minor improvements to various local roads within Districts.

A fencing program of $1,500,000 was undertaken from capital funds to upgrade old fencing and add new fencing on Schedule 2 highways throughout the Province.

Bridge day labour programs, based on capital funding of $4,000,000, were used to upgrade or rebuild many sub-standard bridges throughout the Province. This funding was used primarily for minor bridges and work was done by local bridge crews.

The guardrail installation program from capital funds totalled $1,500,000. This was used to provide roadside barrier in areas of high hazard.

Sodium chloride (salt) orders for the year totalled 99,770 tonnes. All salt is now delivered by truck to Ministry storage sheds, minimizing Ministry handling and saving considerable cost over rail delivery. A new supply source and distribution method will lead to a saving of nearly $500,000 from the previous year.

Dust palliative supply contracts have been prepared to ensure full service from suppliers and to have suppliers apply these materials to road surfaces. Materials ordered include 3,400 tonnes of flake calcium chloride, 4,500,000 litres of magnesium chloride, 1,000,000 litres of liquid calcium chloride and 4,400,000 litres of lignosulphonate.

The following gravel materials were produced in 40 crushing contracts called from Maintenance Branch, headquarters, and used by Districts for the period April through November.

Production (m^3)

Material	Contract	Usage	Unit or Average Price
16 mm crush	217,300	141,101	$5.00
19 mm crush	494,000	202,641	$4.50
38 mm crush	193,000	18,577	$4.00

Revenue generated to the end of November through sale of these materials was $1,691,698, while production costs totalled $3,344,188. Low usage of crushed gravel is a result of the low level of road day labour activity.

The Bridge Information System development was well underway by December, 1984. Prototype programs were expected for early in the new year with field implementation to replace "Registers" by summer of 1985. The vastly improved information available on short notice should assist greatly in managing bridge programs.

A Stock Management System initiative was underway by December, 1984, in which Ministry stockrooms will finally gain computer-aided assistance in managing stock levels. A prototype installation and review at the electrical district will allow full assessment prior to recommendations for other Ministry stockrooms. Analysis of overall Ministry materials management will be greatly enhanced with such systems in future.

Hired equipment priority availability lists and selection, as well as day-to-day control, was also being addressed for system development. The 1985 season should see an easy to use program in every District office to assist in this process.

ROADSIDE DEVELOPMENT PROGRAM

The hydroseeding program in 1984 totalled 4,347 hectares, with most new seeding projects carried out in the Prince George and Terrace Regions. Altogether, 2,386 hectares were seeded, 143 hectares were mulched and 1,818 hectares were refertilized.

All Regions were involved to some extent with noxious weed control. Minor infestations on Vancouver Island were manually controlled, while 1,170 hectares throughout the Province were treated with herbicide.

Sterilization of road shoulders was carried out along 2,801 kilometres in the Burnaby, Nelson and Prince George Regions.

Landscape development work was very active this year with six major projects tendered. The following areas were either completed or substantially finished by year end:

Fern Street - Mt. Seymour Parkway (North Vancouver)
Penticton Channel Parkway
Kingston Avenue - N. Thompson Bridge (Kamloops)
18th Avenue Highways Yard (Prince George)
Allenby Road (Duncan)
McKenzie Avenue Extension (Victoria)

Community participation/beautification cash grants totalling $18,200 were made to the towns of Williams Lake and Duncan.

Design work was carried out for "Expo 86" promotional floral displays to be in place for May of next year, and preliminary design was initiated for the Coquihalla Highway and Annacis Bridge Crossing projects.

Landscape maintenance works were tendered and awarded in the Greater Vancouver area and one each in the Highways Districts of Prince George, Kamloops, Vernon, Kelowna and Nelson. Maintenance costs continue to drop in established plantations as a result of lower maintenance requirements and keen competition. Landscape maintenance contracts totalled $209,000 in 1984.

Rest area improvements were made to approximately 30 sites throughout the Province. Attention continues to be focused on upgrading measures such as domestic water supply, improved access, parking, renewed appliances and improved maintenance practices.

CENTRELINE OPERATION

The first few months of the 1984 season put the program a little behind, but excellent weather at the end of the season helped to offset this slow start.

This year the program concentrated mostly on repaint, as there was not the usual amount of new pavement, except in the McBride, Prince George, Tumbler Ridge, Kitwancool, Meziadin and Terrace areas.

The thermoplastic crew were active throughout the Province, installing semi-permanent markings in the higher wear areas.

The reflective marker crew had a very productive season in the lower mainland and Vancouver Island sections.

Two of the roadmarking crews also undertook the new markings on the 108-Mile and Sparwood Airports.

The increase in major patching carried out by the various Districts resulted in a great deal of back-tracking by our crews to attend to the re-establishing of the centreline.

The following summarizes the quantity of work completed:

	1984-85	1983-84
Painting		
Km's of Centreline, Edge & Lane Lines Painted	19,385 km	19,904 km
Km's of Pre-lining	1,567 km	2,476 km
Curb Painting	0 km	23,696 km
Crosswalks Painted	96	85
Arrows Painted	1,095	823
Stop Lines Painted	367	331
Parking Stalls & Digits Painted	160	28
R.C.M.P. Surveillance Lines Painted	3	0
Traffic Islands Painted	779	839
Traffic Gores Painted	15	45
Painted Lines Eradicated	3,453 m	5,021 m
Thermoplastic Markings		
Centreline, Edge & Lane Lines in Plastic	240 km	328 km
Plastic Laid	10,392 m²	6,097 m²
Arrows	1,092	536
Crosswalks	1,242	376
Stop Lines	1,776	1,144
R.C.M.P. Surveillance Lines	87	59
Advance Markings	0	20
Catseyes and Reflective Road Markings		
Catseye Rubber Inserts	2,614	354
Reflective Road Markings	54,084	41,925
Material Usage		
Yellow Centreline Paint	647,396 L	694,625 L
White Centreline Paint	297,088 L	286,199 L
Glass Bead	550,629 kg	522,489 L
Yellow Thermoplastic	3,311 kg	0
White Thermoplastic	99,455 kg	137,525 kg
Yellow Plastix	16 m²	2 m²
White Plastix	15 m²	2 m²
Special Projects - Paint Only		
108 Mile House Airport	5.1 km	
Sparwood Airport	6.0 km	
Pacific Rim National Park (Ucluelet)	70.0 km	

ROAD FEATURE INVENTORY
SUMMER CLASSIFICATIONS - DISTRICT TOTALS OF ALL CLASSES (1984-85)

Feature	Measure	Provincial Total	Region 1	Region 2	Region 3	Region 4	Region 5	Region 6
SURFACE TYPE	Lane km							
Hot Mix		29,991.5	4,429.8	6,055.0	4,569.5	7,455.2	2,675.9	4,806.1
Cold Mix		9,412.7	573.4	3,950.2	2,476.4	276.2	128.1	2,008.4
Concrete		41.4	38.7		1.8			.9
Treated		1,219.5		153.4	675.3	1.6	210.5	178.7
Gravel		41,415.1	1,024.6	10,118.6	4,061.3	18,373.4	4,823.1	3,014.1
Dirt		5,698.5	26.5	1,715.7	732.7	2,826.5	329.6	67.5
Other		1,402.6	176.0	241.8	543.9	257.7	180.5	2.7
TOTAL		89,181.3	6,269.0	22,234.7	13,060.9	29,190.6	8,347.7	10,078.4
TOTAL	Road km	45,212.8	2,716.4	11,510.1	6,961.0	14,787.6	4,323.8	4,913.9
PROFILE	Lane km							
4-Lane Dvd.		1,430.3	951.9	80.3		18.3		379.8
4-Lane Undvd.		1,827.8	698.6	518.1	35.0	258.9	44.8	272.4
2-Lane		81,401.2	4,325.8	20,217.5	11,882.8	27,872.1	7,902.8	9,200.2
1-Lane		3,171.8	112.3	1,210.9	629.8	798.3	212.2	208.3
Other		1,350.2	180.4	207.9	513.3	243.0	187.9	17.7
TOTAL		89,181.3	6,269.0	22,234.7	13,060.9	29,190.6	8,347.7	10,078.4
SHOULDERS	km							
-1 m Paved		4,212.4	682.2	411.5	630.5	1,279.7	522.9	685.6
-1 m Treated		736.8	2.7	105.5	47.8	162.2	409.0	9.6
-1 m Gravel		16,645.9	1,566.2	4,332.2	3,698.6	2,020.0	1,153.9	3,875.0
+1 m Paved		5,652.9	1,413.1	878.5	1,339.2	1,235.5	193.1	593.5
+1 m Treated		3,368.4	294.8	1,126.0	584.5	988.4	296.4	78.3
+1 m Gravel		13,034.5	988.9	3,710.9	2,355.6	3,020.1	1,074.2	1,884.8
DITCHES	km	49,962.5	2,584.8	9,073.7	5,506.1	20,964.7	5,896.4	5,936.8
CULVERTS	Each							
Entrance		69,545.0	6,990.0	10,176.0	5,036.0	19,315.0	3,184.0	24,844.0
Road Way		86,898.0	6,466.0	15,982.0	13,550.0	24,626.0	9,260.0	17,014.0
DUST SITES	Each	20,861.0	1,508.0	5,740.0	2,050.0	5,553.0	2,951.0	3,059.0
SIGNS	Each							
Structure		1,896.0	809.0	404.0	74.0	355.0	38.0	216.0
Post		96,978.0	21,169.0	19,819.0	14,512.0	17,611.0	6,488.0	17,379.0
GUARDRAIL	Metres							
Steel & Wood		66,192.0	8,026.0	28,233.0	5,288.0	7,392.0	12,197.0	5,056.0
No Post		871,961	281,170	137,706	213,328	63,602	51,589	124,566
REST AREAS	Each							
Lay by		928.0	88.0	206.0	327.0	185.0	99.0	23.0
Rest Stop		258.0	17.0	33.0	62.0	78.0	39.0	29.0
LITTER BARREL	Each	2,828.0	293.0	593.0	582.0	862.0	312.0	186.0
SPECIAL LANES	km	1,508.9	364.5	295.3	242.0	379.4	78.3	149.4
DELINEATORS	Each	37,477.0	12,829.0	6,194.0	5,549.0	4,228.0	3,673.0	5,004.0
MOWING								
Swath	km	51,334.2	4,061.1	11,004.3	7,878.9	15,818.7	4,084.7	8,486.5
Area	ha	952.0	734.0	91.0	22.0	14.0		91.0
RAILROAD X	Each	784.0	99.0	182.0	165.0	181.0	45.0	112.0
CATTLE GUARD	Each	1,676.0	5.0	908.0	267.0	430.0	62.0	4.0
TUNNELS & SNOW SHEDS	km	63.0	20.0	15.0	14.0	5.0		9.0
CATCH BASINS	Each	10,920.0	4,637.0	1,367.0	1,014.0	1,990.0	157.0	1,755.0
CURB & GUTTER	m	1,223,500	328,850	270,289	153,520	201,494	44,271	225,076
MANHOLES	Each	1,928.0	787.0	341.0	70.0	260.0	79.0	391.0

WORK ACTIVITIES PERFORMED BY MINISTRY MAINTENANCE CREWS

Activity #	Description	Man-Hours	Accomplishment	Average Unit Cost	Total Cost
100	Permanent Hand Patch	89,289.0	10,722.7 cu metres	261.46	2,803,573
101	Machine Patch	44,843.9	47,911.6 cu metres	120.41	5,769,485
102	Surface Treatment	2,932.7	12,050.2 1000s sq metres	20.91	252,014
103	Crack Sealing	18,026.0	853,887.7 lane km	.88	752,526
104	Pavement Burning			—	6,784
105	Temporary Hand Patch	61,047.9	5,769.8 cu metres	298.15	1,720,301
106	Skin Hand Patch	10,730.2	1,049.6 cu metres	290.63	305,055
111	Grading	135,216.7	624,156.3 pass km	13.26	8,278,379
112	Dust/Calcium	3,432.5	2,651.0 km	883.59	2,342,413
113	Regravel Roads	87,130.3	587,977.0 cu metres	7.85	4,620,112
114	Dust/Lignosulphonate	2,642.8	1,530.2 km	559.75	856,535
115	Dust/Oils	1,437.0	1,040.8 km	382.35	397,951
120	Regravel Shoulders	40,862.8	150,724.9 cu metres	11.47	1,729,117
121	Grade Shoulders	13,219.5	40,304.3 pass km	16.19	652,723
122	Sundry Shld. Maint.	8,299.2	28,970.7 cu metres	10.32	299,099
123	Curb Maintenance	3,881.4	65,250.7 metres	1.79	116,866
130	Road Base Repair	44,423.9	149,359.2 cu metres	13.85	2,069,142
131	Rail Crossings	3,115.5	3,115.5 man-hours	48.63	151,519
139	Other Surface	8,705.2	8,726.2 man-hours	36.59	319,341
200	Ditch Clean	110,943.0	1,427,746.0 metres	3.91	5,582,941
201	Grader Ditch	3,180.4	7,432.6 km	20.42	151,774
202	Culvert Maintenance	30,752.3	30,411.9 culverts	27.16	826;031
203	Catch Basins	6,434.5	12,906.0 catch basins	14.68	189,519
204	Culvert Replace	13,029.8	1,544.8 culverts	523.90	809,328
209	Other Drainage	17,206.7	17,206.7 man-hours	32.48	559,005
220	Area Mowing	8,116.6	4,020.6 hectares	76.24	306,561
221	Hand Brushing	94,900.3	94,927.3 man-hours	21.02	1,995,640
222	Swath Brushing	13,358.3	23,984.7 pass km	58.74	1,408,876
223	Swath Mowing	20,259.5	63,409.9 pass km	15.13	959,636
224	Area Brushing	1,283.3	578.8 hectares	342.25	198,097
230	Gardening	15,919.8	15,919.8 man-hours	38.52	613,316
231	Shoulder Sterile	2,927.9	2,534.0 shoulder km	48.99	124,149
232	R/W Seeding	6,506.4	2,269.0 hectares	309.30	701,817
233	Re-fertilizing	3,450.5	2,483.2 hectares	130.40	323,827
234	Hydroseeder Mulching	1,447.0	136.8 hectares	2,166.48	296,375
235	Weed Control	7,806.9	3,264.1 hectares	133.76	436,636
239	Other Vegetation	3,946.4	3,946.4 man-hours	23.81	93,968
250	Roadside Litter	31,775.4	88,944.3 shoulder km	7.41	659,657
251	Barrels & Areas	34,793.8	129,590.9 barrels	7.65	991,954
252	Appliance Maint.	8,491.8	12,851.3 applncs.	26.78	344,255
253	Rock & Debris	24,517.2	24,525.0 man-hours	25.46	624,428
254	Road Surface Clean	15,463.9	38,214.2 pass km	16.57	633,299
255	Rock Scaling	929.1	929.1 man-hours	79.79	74,135
256	Hand Surface Clean	9,343.9	9,343.9 man-hours	19.74	184,541
257	Street Surface Clean	11,440.6	31,799.1 pass km	16.55	526,465
259	Other Debris	8,299.0	8,299.0 man-hours	27.60	229,127
300	Truck Plow	164,105.4	4,476,422.7 plow km	1.39	6,240,900
301	Sand	211,142.0	546,457.4 cu metres	25.91	14,160,096
302	Chemical	35,314.8	55,790.8 cu metres	110.23	6,150,043
303	Patrol	179,541.6	4,776,416.2 km	1.06	5,108,096
304	Grader Plow	59,961.1	521,153.0 plow km	7.32	3,818,654
305	Ice Blading	23,663.2	173,838.5 plow km	7.71	1,341,830
306	Misc. Snow Clearing	34,984.6	35,026.6 man-hours	45.31	1,587,230
307	Drainage Thawing	18,704.4	18,729.4 man-hours	29.30	548,916
308	Stockpile Salt	2,040.2	11,508.1 cu metres	7.26	83,576
309	Snowfences	1,604.5	18,639.5 metres	3.17	59,236
310	Plowboards	1,350.9	2,278.5 p boards	30.71	69,990
311	Grader Winging	33,376.5	245,288.8 plow km	8.14	1,998,329
312	Snow Blowing	2,576.7	2,576.7 man-hours	48.44	124,821
313	Winter Standby	38,960.9	38,960.9 man-hours	20.35	793,087
319	Other Winter	34,569.3	34,583.8 man-hours	40.24	1,391,987
400	Signs	110,714.8	198,646.3 posts	17.13	3,404,560
404	Posts (Yard)	6,577.1	17,633.6 posts	6.25	110,228
405	Sign Fabrication	2,711.1	2,711.1 man-hours	19.65	53,293
430	Pavement Marking	6,138.1	46,754.1 sq metres	4.30	201,501
431	Road Stud Install	65.0	340.0 studs	74.10	25,194
432	Line Paint	33,027.3	19,830.7 pass km	131.07	2,599,273
433	Reflect Inst/Replace	4,112.7	72,147.9 no rfltrs	3.37	243,596
434	Curb Painting	248.9	19,421.1 metres	.33	6,495

WORK ACTIVITIES PERFORMED BY MINISTRY MAINTENANCE CREWS (continued)

Activity #	Description	Man-Hours	Accomplishment	Average Unit Cost	Total Cost
435	Mark Eradication	2,578.6	7,730.6 sq metres	8.67	67,074
436	Prelining	7,853.5	1,696.5 pass km	76.77	130,248
437	Plastic Line (Auto)	940.5	240.0 pass km	362.52	87,006
438	Thermoplastic (Other)	1,860.8	10,230.6 sq metres	10.31	106,544
439	Other Sign & Mark	21,462.0	21,462.0 man-hours	22.11	474,569
450	Signal Maintenance	10,628.0	1,786.6 intersec	210.94	376,882
451	Signal Repair	11,516.3	2,249.0 intersec	161.89	364,110
452	Electrical Patrol	2,394.7	45,384.5 km	1.22	55,546
453	Multi Message Signs	1,788.7	1,811.7 man-hours	26.50	48,015
459	Other Traffic Control	701.8	708.8 man-hours	88.50	62,732
460	Lighting Maintenance	7,767.2	9,428.0 no poles	37.36	352,308
461	Lighting Repairs	14,055.8	6,175.0 no poles	114.14	704,852
465	Other Lighting	1,077.5	1,077.5 man-hours	85.97	92,641
466	Generator Maintenance	1,317.0	334.5 generators	161.56	54,045
467	Generator Repair	1,582.4	187.0 generators	321.03	60,034
469	Other Generators	9.5	9.5 man-hours	133.78	1,271
470	Service Equipment Maint.	2,135.2	770.1 units	74.78	57,593
471	Service Equipment Repair	499.4	103.0 units	152.16	15,673
475	Control Device Repair	6,301.4	961.8 devices	165.33	159,017
476	Control Device Mfg.	313.7	313.7 man-hours	21.25	6,669
479	Other Control Devices	343.6	343.6 man-hours	57.10	19,621
500	Bridge Cleaning	23,921.2	23,921.2 man-hours	22.52	538,761
501	Bridge Rail Repair	15,634.7	18,516.5 metres	29.20	540,862
502	Bridge Steel Paint	4,341.5	2,981.1 litres	178.56	532,313
503	Sand Blasting	3,435.2	3,435.2 man-hours	34.74	119,372
504	Water Blasting	88.4	88.4 man-hours	150.87	13,337
505	Concrete Deck Repair	7,728.7	7,728.7 man-hours	29.86	230,807
506	Timber Deck Repair	23,545.2	23,545.2 man-hours	38.70	911,280
507	Bridge Inspection	9,780.9	9,780.9 man-hours	24.86	243,246
508	Bailey Stk. Handling	2,831.4	1,897.0 no. panels	53.12	100,772
509	Bailey Deck Repair	2,923.6	2,923.6 man-hours	46.08	134,742
510	Tunnel Maintenance	6,147.4	6,147.4 man-hours	30.47	187,346
511	Perm. Structure Rpr.	10,670.8	10,670.8 man-hours	39.06	416,906
512	Timber Structure Rpr.	28,076.0	28,076.0 man-hours	35.42	994,588
513	Deck Linseed Oiling	2,271.7	92,302.7 sq metres	.68	63,091
514	Stream Cln/Chan. Rpr.	7,160.3	7,160.3 man-hours	34.89	249,827
515	Building Maintenance	4,045.5	4,045.5 man-hours	21.47	86,866
516	Misc. Carpentry	18,036.9	18,036.9 man-hours	23.21	418,745
517	Concrete Overlay	835.0	1,660.0 sq metres	48.93	81,225
518	Scarifying	255.0	0.0 sq metres		10,302
519	Hand Painting	2,439.1	2,439.1 man-hours	66.87	163,117
520	Conc. Guardrail Maint.	15,306.1	66,839.9 no. pieces	5.94	397,104
521	Fence Repair	4,078.9	91,042.4 metres	1.98	180,470
522	Cattleguard Rpr.	3,368.8	517.7 cattleguards	265.36	137,381
523	Steel & Timber Guardrail	993.3	8,376.2 metres	3.97	33,335
524	Special Fencing	1,052.0	1,052.0 man-hours	70.31	73,970
528	Plumbing	1,623.5	1,623.5 man-hours	26.38	42,836
529	Other Str. Maint.	11,224.8	11,224.8 man-hours	52.21	586,113
560	Screen & Stockpile	33,096.8	403,916.0 cu metres	12.35	4,991,887
561	Pit Prep. & Cleanup	16,777.3	16,870.8 man-hours	85.59	1,444,114
562	Crush (38, 76mm)	24.0	8,548.0 tonnes	.04	389
563	Crush (19mm)	0.0	1,443.6 tonnes		
564	Crush (13, 16mm)	0.0	35,460.0 tonnes		
565	Asphalt Mix	88.1	579.0 cu metres	189.58	109,769
567	Grade Premix	67.2	102.0 cu metres	60.68	6,190
568	Gravel Stockpiling	5,354.5	38,577.4 cu metres	26.25	1,012,835
569	Other Materials	3,529.8	3,537.3 man-hours	97.71	345,642
570	Ferry Operation	712.3	712.3 man-hours	63.33	45,113
571	Ferry Maintenance	5,198.3	5,198.3 man-hours	38.48	200,047
572	Dock Maintenance	19,924.6	19,924.6 man-hours	27.60	550,112
579	Other Ferry & Dock	6,791.8	6,791.8 man-hours	46.40	315,206
580	Equipment Service	91,807.4	32,602.2 no. units	43.93	1,432,393
581	Equipment Repair	15,480.3	3,848.0 no. units	86.86	334,255
582	Mechanical Travel	19,329.8	5,472.7 no. units	65.38	357,829
583	Fueling	6,634.9	3,877.3 no. units	40.80	158,207
586	Equipment Rental (Branch)	.0	12,303.4 no. units	606.80	7,465,806
590	Radio Repair	12.8	1.0 no. units	1,543.00	1,543
591	Radio Install	29.7	2.0 no. units	1,253.00	2,506
592	Repeaters	15.8	1.0 no. repeaters	758.00	758

WORK ACTIVITIES PERFORMED BY MINISTRY MAINTENANCE CREWS (continued)

Activity #	Description	Man-Hours	Accomplishment	Average Unit Cost	Total Cost
600	Supervision	518,907.1	518,921.1 man-hours	18.04	9,362,392
601	Safety Programs/Train.	44,915.8	44,915.8 man-hours	16.40	736,691
602	Vacation	694,784.8	695,791.8 man-hours	13.48	9,381,939
603	Sick Leave	194,540.7	194,540.7 man-hours	13.37	2,601,907
604	W.C.B.	22,556.8	22,556.8 man-hours	13.36	301,471
605	Special Leave	30,915.5	30,915.5 man-hours	13.75	425,285
606	Stand-by	20,943.4	20,951.6 man-hours	14.06	294,609
609	Equipment Hauling	26,509.4	26,521.4 man-hours	65.20	1,729,413
610	Light Duties	1,643.0	1,643.0 man-hours	13.20	21,690
611	Travel (4 hr. +)	20,896.8	20,912.8 man-hours	123.69	2,586,761
612	Traffic Patrol	68,478.9	69,818.1 man-hours	20.20	1,410,528
613	Yard Maintenance	91,270.7	91,291.2 man-hours	19.18	1,751,675
614	Stock Control	92,280.4	92,296.4 man-hours	29.87	2,757,448
615	Camp Operation	17,067.7	37,786.5 meals	21.04	795,243
616	Equipment Training	39,140.2	39,140.2 man-hours	18.07	707,426
617	Other Training	33,533.3	33,541.1 man-hours	18.67	626,238
618	Tending	66,492.2	69,301.2 man-hours	20.57	1,425,920
619	Other Overhead	14,541.0	14,541.0 man-hours	96.29	1,400,256
651	Inquiries	13,953.7	13,953.7 man-hours	15.88	221,595
653	Draft & Calcu.	97,021.8	97,021.8 man-hours	14.59	1,415,877
654	Maint. Man. Office	58,406.7	58,406.7 man-hours	15.15	884,937
655	Maint. Man. Field	21,089.3	21,089.3 man-hours	18.47	389,523
656	Permits & Land Ref.	28,566.8	28,585.8 man-hours	15.45	441,693
658	Sub-divisions	45,769.0	45,773.0 man-hours	15.88	727,097
660	Survey Projects	32,669.2	32,729.2 man-hours	22.57	739,014
661	Avalanche Maint.	16,951.7	16,951.7 man-hours	32.90	557,826
666	District Admin.	315,072.5	315,072.5 man-hours	17.90	5,641,985
668	Surveying Other	85,440.6	85,440.6 man-hours	16.39	1,400,886
670	Secretarial	170,492.5	170,492.5 man-hours	14.61	2,492,337
671	General Accounting	35,182.1	206,392.4 1000's $mthly	2.28	471,522
672	Payroll & Personnel	84,094.2	421,946.2 100's mhs	2.67	1,128,117
673	Accounts Payable	64,816.4	77,625.1 no. vouchers	11.12	863,383
674	Perm. & S.D. Typing	24,667.0	24,667.0 man-hours	13.81	340,747
675	Termin/Data Entry	15,554.3	918,825.4 no. cards pro	.23	213,937
679	Other Office & Tech.	10,837.9	10,837.9 man-hours	20.46	221,844
700	Clearing & Grubbing	13,226.4	839.1 hectares	2,585.13	2,169,185
701	Rock Blasting	860.7	114,695.3 cu metres	5.33	611,343
702	Road Bed Constr.	23,607.0	568.5 km	22,138.93	12,585,983
703	Road Widening	7,370.7	134.9 km	8,019.85	1,081,879
704	Shoulder Widening	5,633.7	233.1 km	1,645.07	383,467
705	Ditch Construction	6,640.1	52,868.3 metres	26.84	1,419,159
706	Culvert Installation	10,493.9	10,296.4 metres	107.41	1,105,984
707	Multi-Plate	4,272.3	197.2 metres	1,060.73	209,176
708	Machine Paving	5,500.9	60,040.4 tonnes	57.11	3,429,226
709	Road/Pulvi-Mix	1,036.9	10.8 km	17,117.31	184,867
710	Concrete G/R Install.	13,208.1	15,009.0 no. pieces	118.59	1,779,971
711	Seal Coating	9,077.6	132.9 km	6,633.82	881,636
712	R/W Landscape	1,266.1	142.6 hectares	1,475.09	210,349
713	R/W Fencing	6,591.9	267,752.0 metres	4.18	1,120,486
714	Rest Area Develop.	6,672.7	6,672.7 man-hours	66.59	444,372
715	Retaining Wall	580.9	117.8 sq metres	322.64	38,008
716	Rip Rap	1,928.9	23,885.0 cu metres	26.76	639,312
717	Curb & Gutter	583.7	1,184.6 metres	24.52	29,047
718	Manhole Install.	676.4	20.2 number	1,954.80	39,487
719	Cattleguards	1,440.5	98.0 number	1,292.18	126,634
720	Chain Link Fence	1,218.5	6,913.1 metres	28.77	198,894
721	Yard Betterments	4,484.4	4,486.9 man-hours	63.40	284,503
722	Building Construction	6,296.1	6,296.1 man-hours	25.01	157,488
723	Dock Construction	2,404.4	2,404.4 man-hours	45.44	109,257
724	Bridge Construction	57,279.0	57,285.2 man-hours	63.88	3,659,901
725	Rest Area App.	377.4	89.0 number	233.85	20,813
726	Electrical Const.	13,372.3	13,373.3 man-hours	54.28	725,962
727	Gravelling	23,374.9	493,942.1 cu metres	7.41	3,661,366
728	Asphalt Curb	1,352.6	5,021.1 metres	7.79	39,116
729	Traffic Islands	1,152.5	1,949.4 sq metres	28.71	55,978
730	Shoulder Paving	1,232.0	710.6 tonnes	290.56	206,479
731	Shoulder Stabilization	809.5	402.1 shoulder km	284.43	114,372
732	Shoulder Surface Treat.	317.6	5.6 shoulder km	4,693.21	26,282

WORK ACTIVITIES PERFORMED BY MINISTRY MAINTENANCE CREWS (continued)

Activity #	Description	Man-Hours	Accomplishment	Average Unit Cost	Total Cost
733	Rock Drilling	1,984.0	15,145.2 metres	84.53	1,280,363
734	Slope Surface	773.5	1,393.0 sq metres	55.52	77,349
736	G/R Stockpile	580.1	2,039.0 no. pieces	8.53	17,394
737	G/R Fabrication	14.0	.0 no. pieces		1,002
738	Road Stabilization	225.4	28.7 km	1,429.16	41,017
739	Steel G/R Installation	1,339.0	315.9 metres	260.73	82,367
740	Bridge Deck Construction	7,931.1	7,931.1 man-hours	106.77	846,863
741	Bailey Bridge Const.	14,354.2	14,354.2 man-hours	51.32	736,769
799	Other Projects	27,440.3	27,457.3 man-hours	123.43	3,389,193
810	Benkleman Beam	721.5	176.0 number	69.97	12,315
900	Flood Control	33,939.8	34,159.8 man-hours	61.06	2,086,107
901	Slide Removal	22,911.9	23,136.4 man-hours	45.16	1,044,857
902	Snow Slides	3,962.4	3,966.4 man-hours	55.27	219,246
903	Winter Repair	10,181.8	10,181.8 man-hours	42.10	428,754
904	Island Maintenance	8,089.2	8,089.2 man-hours	22.14	179,131
909	Other E.O.M.	13,078.1	13,097.6 man-hours	33.59	439,980
996	Write-off (Comp. Only)	.0	136,040.8 no. $	1.00	136,043
998	Stock Transfer	.0	108.0 no. $	19,427.48	2,098,168
999	District Overhead	44.2	170,965.6 no. $	14.18	2,425,325

1985 ROAD KILOMETRES BY ELECTORAL DISTRICTS

	Paved	Gravel/Dirt	Total
Alberni	281	148	429
Atlin	325	658	983
Boundary-Similkameen	869	1,114	1,983
Burnaby-Edmonds	35	-	35
Burnaby-North	19	-	19
Burnaby-Willingdon	17	-	17
Cariboo	1,506	5,641	7,147
Central Fraser Valley	73	13	86
Chilliwack	221	73	294
Columbia River	515	532	1,047
Comox	669	475	1,144
Coquitlam-Moody	47	1	48
Cowichan-Malahat	428	211	639
Delta	63	-	63
Dewdney	241	90	331
Esquimalt-Port Renfrew	417	107	524
Kamloops	817	1273	2,090
Kootenay	881	328	1,209
Langley	84	-	84
Mackenzie	444	231	675
Maillardville-Coquitlam	22	-	22
Nanaimo	431	238	669
Nelson-Creston	975	749	1,724
New Westminster	10	-	10
North Island	520	424	944
North Peace River	378	2,211	2,589
North Vancouver-Capilano	6	-	6
North Vancouver-Seymour	26	-	26
Oak Bay-Gordon Head	-	-	
Okanagan North	593	521	1,114
Okanagan South	604	145	749
Omineca	583	2,057	2,640
Prince George North	269	327	596
Prince George South	697	895	1,592
Prince Rupert	250	39	289
Richmond	43	-	43
Rossland-Trail	364	162	526
Saanich and the Islands	321	265	586
Shuswap-Revelstoke	1,039	997	2,036
Skeena	557	697	1,254
South Peace River	642	2,058	2,700
Surrey	160	6	166
Vancouver Centre	3	-	3
Vancouver East	4	1	5
Vancouver-Little Mountain	-	-	-
Vancouver-Point Grey	19	-	19
Vancouver South	2	-	2
Victoria	-	-	-
West Vancouver-Howe Sound	292	129	421
Yale-Lillooet	1,287	1,738	3,025
Provincial Total	18,049	24,554	42,603

REPORT OF THE DIRECTOR OF EQUIPMENT SERVICES

E.A. Lund, P. Eng.

EQUIPMENT SECTION

No additions were made to the Ministry fleet during the 1984/85 fiscal year and the garage crews were kept busy again this year maintaining the existing fleet as replacement units were limited due to the continuing restraint program.

Replacements obtained during the fiscal year were five graders, six loaders, two forklifts, three self-propelled sweepers, two excavators, 87 heavy trucks, 143 light trucks, 31 automobiles and 23 body sanders.

The equipment management information system continues to be useful in managing the fleet and monitoring costs. Approximately $8,800,000 of equipment rental funds were unspent on replacement or maintenance and they were used to enhance the road maintenance account.

During the year 1,052,800 manhours were expended by the Branch, of which 59% were productive mechanic hours while the balance were supervision, support (stockkeeping) or overhead hours such as holidays and leaves.

The provincial average shop rate was $28.29 per mechanic hour.

Fuel consumption during the year was:

Gasoline	12,818,000 litres
Diesel	15,482,000 litres
Oil	662,000 litres
Propane	270,000 litres
CNG	10,000 litres

There were 166 requests for approval to hire transportation units and 330 requests for approval to hire construction equipment at other than standard rates.

The Branch in cooperation with the Purchasing Commission held eight public auctions at which time 462 pieces of used and surplus equipment were disposed of at six locations in the province. Several crawler tractors were included in the auctions and as they were not replaced the Ministry will rent such equipment from private contractors.

The Langford fabrication shop custom fitted 62 4 tons and three tandem trucks to full Ministry standards of front mounts, underbody plows and quick change kits; 35 quick change kits were fabricated and distributed for retrofitting along with 20 Frink hopper sander conversion kits and two twin chain sanders for four ton trucks and three for tandems were fabricated. As well, the quick change system was standardized for tandems, 60 guardrail lifters were manufactured and three tailgate chip spreaders for use throughout the province. A training aid simulator was fabricated for the computerized salt/sand control.

Experimentation was also started on a new hydraulic valve system, with electronic valves, to enable the dispensing of salt and sand to be better automatically controlled.

The Ministry converted 11 vehicles to operate on natural gas while retaining the option of operating on gasoline fuel if the need arises. Two of these NGV (natural gas vehicle) conversions were of special interest. A standard Ministry Ford F-800 four-ton snowplow/dump truck powered by a 8.2 litre four-cycle Detroit diesel engine was modified to operate on a combination diesel - natural gas fuel, the conversion was successful and the mounting of five heavy steel compressed natural gas tanks was achieved without reducing the carrying capacity of the truck. The second project was the successful conversion of a 6-71 two-cycle Detroit diesel engine to operate on a diesel and natural gas fuel. This tandem dump truck is based in Kamloops and was operated 27,000 km during the winter to plow snow and spread sand. The later conversion was a world first and a credit to the Ministry personnel as well as the private industry suppliers.

INVENTORY OF MINISTRY OF TRANSPORTATION AND HIGHWAYS EQUIPMENT FLEET AS OF MARCH 31, 1985

	Class	Description	Active Units
A.	11XX	Cars	245
B.	1200	Plows	1721
C.	15XX	Compressors	110
D.	1611-1615	Fork Lifts	88
	1621-1625	Cranes	6
	1630	Bridge Inspection Units	1
	2100	Excavators	30
E.	18XX	Light Plants	40
F.	001X	Truck Cranes	182
	0020-0021	Personnel Lifts	43
	0030	Wreckers	8
	0033	Electrical Signs	126
	0070	Garbage Packer	43
G.	2010	Self Propelled Brooms (Pickup)	17
	2020	Towed Brooms	19
	2015	Self Propelled Brooms (Non-pickup)	27
	2030	Catch Basin Cleaner	1
H.	94XX	Transportation Light Trucks	1,688
	9430	Emergency Transportation Vehicle	24
J.	25XX	Asphalt and Paving Equipment	108
	0050	Pavement Burners	3
	0060	Distributer	37
K.	28XX	Crushing and Screening Equipment	53
L.	30XX	Graders	304
	3100	Towed Graders	3
M.	3510	Sanders	1,043
N.	40XX	Rubber Tired Tractors	195
O.	0001	Hydroseeder	5
	0002	Centreline Marker	11
	0003	Tunnel Washer	1
	3550	Snow Blower (quick slip on)	30
	0040	Water Tank	138
	0080	Auger Drill	12
	0081	Diamond Drill	7
	5600	Self-Propelled Horizontal Drill	1
	5700	All-Terrain Vehicle	2
	5800	Air Track Drill	2
	6001	Skidoo	6
	6002	Snowmobile	9
	6003	Motorcycle	9
	6025	Road Planer	2
	6090	Misc. Small "O" Equipment	71
	6091	Small/Medium "O" Equipment	10
	6092	Medium "O" Equipment	38
	6093	Medium/Large "O" Equipment	8
	6094	Large "O" Equipment	15
P.	46XX	Roller	101
	4700	Hand Tampers	178

INVENTORY OF MINISTRY OF TRANSPORTATION AND HIGHWAYS EQUIPMENT FLEET AS OF MARCH 31, 1985 (continued)

	Class	Description	Active Units
Q.	50XX	Crawler Tractors	37
R.	44XX	Loaders and Backhoes	233
S.	7000-9320	Heavy Trucks	1,418
T.	6500 & 6501	Lowbed Highboy Trailers	31
	6502	Tilt and Flatdeck Trailers	39
	6503	Utility Trailers	115
	6510-6512	Unheated Storage Trailers	45
	6520-6522	Kitchen, Washcar Trailers	39
	6523-6525	Office, Sleeper Trailers	157
	6526-6528	Assembly Trailers	33
	6530	Miscellaneous Trailers	1
U.	6250	Licensed Non-rental	34
V.	6200	Shop Equipment	1,961
W.	3302-3303	Rock Breakers, Brush Saws	123
Z.	3300	Brush Cutters	13
	3301	Chipper	9

TECHNICAL STORES SECTION

The Coquihalla projects perogative have placed a heavy demand on the engineering and testing supplies provided by this section of the Equipment Services Branch.

Aggregate and concrete testing, drafting, snow avalanche, safety equipment and survey sundries were consumed in amounts to almost double those provided in previous years.

12 electronic survey instruments (total stations) have been purchased and issued. These instruments, when fully supported with computer hard and software, will significantly reduce engineering costs while increasing accuracy and production. Also purchased were 27 theodolites, 23 surveyer's levels and 11 electronic distance measuring devices.

The inventory of survey instruments as of March 31, 1985:

12 Total Stations and Data Collectors
445 Theodolites and Transits
462 Levels
102 Electronic Distance Measuring Instruments

LANGFORD SIGN SHOP SECTION

The Langford Sign Shop produced all the Ministry's road sign requirements in 1984-85. plus highway signs for the Ministry of Lands, Parks & Housing, Parks Branch.

The shop produced 17,330 square metres of signs or 40,387 individual signs, plus 11,647 roadside reflective delineators.

Some unusual signs produced in the past year were "B.C. Spirit" signs for the Ministry's ferry fleet and "Welcome to Expo" signs for all entrances to the province. A new sign machine purchased a year ago effectively produces an average of 500 street names per month, along with many other varieties of signs.

The supply of metal sign blanks by the Ministry of the Attorney General has been above requirements and the shop has an adequate stock of blanks on hand, which allows for uninterrupted production.

A computerized management system for the Sign Shop is under design. As a first step in the system a microcomputer has been installed which allows the electronic mail processing of sign orders from the field.

Orders received at the Sign Shop are processed and filled at an average time of 35 working days. Rush or urgent orders are processed sooner

FERRIES

Service was provided on 33 routes under the jurisdiction of the Ministry. This was accomplished by a fleet consisting of 22 certified vessels, six reaction ferries, four cable ferries, six subsidized ferries and two miscellaneous ferries. There are also three tugboats, four portable barges and six miscellaneous barges for emergency and other purposes.

During the year there were two significant events which changed the nature of the ferry service. Operation of the Barnston Island tug and barge was contracted out to private industry. The successful tenderer for a three year period was Western Pacific Marine Ltd., who supplied a tug and the necessary personnel to operate the Ministry vehicle barge. The Barnston Island tug was transferred to the Upper Arrow Lake and renamed the M.V. "Shelter Bay". The second event was the Bareboat chartering of the M.V. "Garibaldi 11" to Western Pulp Limited Partnership to operate on the Woodfibre Ferry Route under legal contract with the Ministry.

In keeping with the government restraint program, service was reduced on the Albion - Fort Langley, Castlegar and Marguerite ferry routes.

The Fort Nelson River ferry on the Fort Nelson - Fort Simpson Highway was replaced by a bridge and the vehicle barge was stored for future emergency requirements.

The M.V. "Galena" was re-engined with four Detroit Diesel Silver 8V92 generator units and the M.V. "Kahloke" received a major refit and new UML drive units and newly rebuilt 8V92 Detroit Diesel engines were fitted.

The fleet carried 3,876,937 vehicles and 8,524,095 passengers (including drivers) during the year. The totals were 3,889,936 and 8,623,196 respectively the previous fiscal year.

REVENUE

Alert Bay	$ 371,312.10
Comox-Powell River	1,929,688.14
Cortes Island	135,363.35
Denman Island	332,749.51
Gabriola Island	740,035.14
Hornby Island	119,889.90
Quadra Island	577,102.70
Queen Charlotte Islands	186,758.15
Texada Island	232,779.06
Thetis Island	157,036.65
TOTAL	$ 4,782,714.69

RECORD OF FERRY TRAFFIC, FISCAL YEAR 1984-85

Route Name	Leg Trips	Passengers Not Drivers	Including Drivers	Autos	Trucks	Dangerous Cargo	Logging Trucks	Recreation Vehicles Under 6 m	Recreation Vehicles Over 6 m	Trailers/ Semis	Motor Buses	Motor-Cycles	Other	Total Vehicles
Albion-Fort Langley	61,158	878,516	1,902,452	959,417	30,345	2	4	1,183	1,230	8,657	313	22,693	92	1,023,936
Alert Bay	14,706	187,634	260,220	64,849	3,924	159	656	849	507	915	87	466	174	72,586
Arrow Lake (Upper)	12,875	130,525	248,562	89,816	7,235	328	2,281	5,365	5,476	3,129	135	2,061	2,211	118,037
Arrow Park	15,814	16,158	31,500	12,387	912	3	225	560	639	365	15	156	80	15,342
Barkley Sound (Subsidy)	420	13,701	13,701											
Barnston Island	69,760	88,423	181,965	58,540	27,895	184	2	658	73	3,308	1,123	1,344	415	93,542
Big Bar	2,292	1,828	3,338	30	915	76	2	26	1	24		134	302	1,510
Boston Bar	118,518	158,475	249,441	40,044	48,511							2,284	127	90,966
Castlegar	72,984	418,692	897,046	299,304	169,879		44	1,317	266	1,881	1,490	3,982	211	478,354
Clayhurst	24,135	24,531	49,067	21,502	2,323	57		108	79	331	17	140	579	25,136
Comox-Powell River	2,916	149,076	228,816	66,968	1,909	26	67	4,465	1,484	1,939	150	1,440	1,312	79,740
Cortes Island	4,272	38,380	71,452	29,775	1,290	75	7	643	242	570	240	160	70	33,072
Denman Island	14,758	251,011	448,237	182,512	5,157	224	360	5,159	1,575	305	240	1,613	81	197,226
Dodge Cove (Subsidy)	282	2,371	2,371											
Francois Lake	15,318	161,080	307,233	114,047	18,343	1,558	4,271	1,934	1,992	3,325	269	233	181	146,153
Gabriola Island	12,933	426,509	731,751	290,803	7,016	320	192	694	906	1,456	163	3,224	468	305,242
Glade	81,902	86,109	180,059	88,142	961	20		133	24	285	1,286	841	258	91,950
Harrop	88,626	124,749	283,231	148,260	2,791	137	23	1,148	419	228	1,795	1,214	2,467	158,482
Hornby Island	10,160	124,847	217,924	81,536	3,144	167	5	3,858	597	2,329	135	1,177	129	93,077
Kootenay Lake	8,968	196,810	361,363	89,766	50,266	132	111	5,039	3,647	11,809	296	3,369	118	164,553
Lasqueti Isl. (Subsidy)	1,548	22,990	22,990											
Little Fort	19,100	15,707	23,989	2,372	5,664		1	21		8	2	178	36	8,282
Lytton	26,430	62,794	97,278	11,748	20,346	3	1	22	6	140	1,412	300	506	34,484
Marguerite	15,139	15,444	15,444											
McLure	11,480	12,600	23,178	4,461	4,655		2	141	325	423	36	354	181	10,578
Mitco Marine (Subsidy)	324	720	720											
Needles	29,067	246,386	385,891	113,606	6,486	220	376	7,088	5,998	1,330	656	2,268	1,477	139,505
Quadra Island	15,222	435,643	706,823	250,165	5,703	260	382	3,179	2,125	4,743	372	4,121	130	271,180
Queen Charlotte Isl.	6,832	69,961	133,355	57,003	4,155	143		303	255	945	306	191	93	63,394
Shuswap Lake (Subsidy)	286	879	1,663	165	368			6	18	113	1		113	784
Texada Island	7,340	106,950	187,837	74,079	2,078	215	17	2,321	228	572	81	982	334	80,887
Thetis Island	21,442	138,555	200,827	59,250	1,471	89	693	69	30	237	17	167	249	62,272
Usk	31,682	37,104	53,771	10,377	5,991		1	38	3	1	4	206	46	16,667
TOTALS	818,089	4,647,158	8,524,095	3,220,924	439,733	4,398	9,723	46,327	28,125	49,348	10,641	55,278	12,440	3,876,937

Fort Nelson Hover - No longer in service
Woodfibre - Bareboat Charter

FERRIES ROUTE USAGE

Route Name	Fuel Consumed 1000's L	Total Manhours	Cost Per Trip	Vessel Capacity Used %
Albion–Fort Langley	449	81,247.5	32.69	75.7
Alert Bay	935	60,357.5	124.96	42.6
Arrow Lake (Upper)	860	50,841.8	114.38	27.8
Arrow Park	18	6,222.0	7.59	14.1
Barkley Sound (Subsidy)	*	*	2,432.69	*
Barnston Island (Subsidy)	*	*	5.04	33.7
Big Bar	0	3,882.5	31.06	44.5
Boston Bar	0	22,867.0	2.81	96.3
Castlegar	35	13,413.0	3.26	27.9
Clayhurst	137	13,524.0	15.32	28.2
Comox–Powell River	4,128	200,020.5	1,731.86	22.9
Cortes Island	400	33,530.5	175.99	52.5
Denman Island	353	54,282.8	102.83	50.9
Dodge Cove (Subsidy)	*	*	54.96	*
Francois Lake	579	45,255.3	92.30	32.8
Gabriola Island	1,036	83,007.0	146.51	34.6
Glade	32	10,648.0	2.17	14.6
Harrop	51	12,270.8	2.81	18.9
Hornby Island	237	35,677.5	76.56	52.4
Kootenay Lake	675	86,069.7	288.27	59.0
Lasqueti Island (Subsidy)	*	*	125.32	*
Little Fort	2	4,953.0	3.87	28.9
Lytton	0	12,103.0	9.75	90.2
Marguerite	0	4,061.5	5.30	**
McLure	2	2,791.0	6.37	61.8
Mitco Marine (Subsidy)	*	*	101.85	*
Needles	292	48,467.5	35.35	18.8
Quadra Island	687	85,221.5	110.49	63.0
Queen Charlotte Islands	249	30,159.5	116.47	40.2
Shuswap Lake (Subsidy)	*	*	92.31	*
Texada Island	872	77,670.0	268.56	23.9
Thetis Island	474	42,247.0	55.52	34.5
Usk	12	6,492.5	4.08	30.9
–Spare Route	2	4,964.5	N/A	N/A
–Courtenay District Office	N/A	19,728.5	N/A	N/A
TOTAL	12,517	1,151,976.9	N/A	N/A

* Subsidized operations – information not available.
**Information not available.

COMMUNICATIONS SECTION

During 1984 all radio equipment in Region 4 was replaced. Thirty-four mountain-top radio sites were involved, each site requiring an average of three new radios, a control shelf, and all the necessary auxiliary equipment. To extend radio coverage in the Region new repeaters were installed at Fort St. James, Nation River, Germansen Landing, Mt. Lemoray, Hudson Hope, Endako and Nasko. The repeater serving Honeymoon Creek was relocated. A special repeater package was quickly installed east of Fort Nelson to satisfy needs on the Desan project.

Elsewhere in the Province improvements to the mobile radio system were made at Pemberton, Vernon and Mabel Lake.

The conversion of radio repeaters to solar power is continuing. Most Ministry radio sites are now powered with solar energy.

Preparations for the Region 5 conversion to new equipment is underway. Most of the Region was surveyed. Two new repeaters were installed at Cedarvale and Kitwanga Lake for testing.

Most of the work associated with the installation of two new remote weather stations along the Coquihalla Highway was completed. These stations will eventually send their data directly to the weather computer system located at Deas Tower.

In 1984, some 650 mobile radios, 50 portable radios, 40 base stations, 100 repeater radios and a large quantity of auxiliary equipment was purchased. Sixteen special survival packs were purchased for use by Ministry technicians who have to service the remote mountain-top repeaters in winter.

A worksite alarm unit was developed to give flagpersons a method by which they can reliably warn workers at highway jobsites of impending danger caused by such hazards as runaway vehicles. The alarm unit is located near the jobsite and is activated by radio from the flagperson. Five units are currently under evaluation in the field.

The Ministry had the B.C. Telephone Company install a "Spacetel" station at the Dawson Camp on the Coquihalla Highway. This system uses a satellite to communicate with Vancouver, can be installed quickly, and provides high quality telephone and data circuits to a remote location where telephone line or terrestrial radio circuits are impractical.

REGIONAL REPORTS

REGION 1

(W.E. Mercer, P. Eng., Regional Director Highways, Burnaby)
North Vancouver, Gibsons, New Westminster
and Chilliwack Districts

NORTH VANCOUVER DISTRICT

Roads

Maintenance: Commencing October 8, 1984, heavy rains caused severe flooding in the Pemberton and Squamish Valleys. Extensive damage took place to roads throughout. Many farms and homes were flooded as the Lillooet River breached its dike in several locations. A Bailey bridge was supplied and installed across the Cheakamus River for the Village of Squamish. This restores access for Paradise Valley residents.

On December 14, 1984, a debris slide occurred at Sclufield Creek on Highway 99. Approximately 8000 m^3 of debris was deposited at the highway. Most of the debris was contained by the 10 m high fill at this location.

Patch paving contracts were let at various locations on Highway 99 between Lions Bay and Squamish. An overlay was applied to the Ministry's section of Capilano Road.

Improvements in alignment and width were made to sections of the Pemberton Portage Road to D'Arcy, and to various roads on Bowen Island.

An accelerated machine brushing program was undertaken on Highway 99 in the West Vancouver and Squamish foreman areas.

Construction: Under the guardrail program, 1100 m of roadside barrier was installed along the Squamish Highway. Several chain link fence installations were carried out under the fencing program.

The District became involved in several of the projects regarding debris control on Highway 99. A small debris sump was constructed in Newman Creek above the highway. Rip-rap was installed in Alberta Creek. The Lions Bay works yard was temporarily relocated into Brunswick Pit to allow the construction contractor access to the Harvey Creek debris catchment facility.

A Hydro pole relocation project was completed on Highway 99, to allow scaling crew access to several rock bluffs.

A substantial benefit to North Shore motorists occurred with the completion of the construction project extending Fern Street to Mount Seymour Parkway, including a new bridge crossing Seymour Creek.

Bridges

A considerable effort was made towards galvanizing of bridge railing panels. Thus far, Mosquito Creek, Edgemont, Mountain Highway and Fern Street structures have been completed.

With Bridge Branch completing a new structure across Montizambert Creek, the District contracted out the dismantling of the old timber trestle, Sunset Bridge, which the new structure replaces.

GIBSONS DISTRICT

Roads

Maintenance: The maintenance program was carried out according to plan with no extraordinary problems. Winter maintenance was marginally heavier due to more severe weather conditions than have been prevailed for the past few years but no major problems were encountered. A minor program of gravelling, brushing and shoulder repair was undertaken during the last two weeks in March.

Construction: No improvements or projects were undertaken due to lack of funds for Day Labour or Minor Betterments. 0.27 km of guardrail were placed on Sunshine Coast Highway 101 in the Madeira Park Foreman area.

Bridges

Normal maintenance was carried out on all bridges with the assistance of the Dock District crew from Powell River.

Sallahlus Bridge 1419 was replaced with a new structure consisting of concrete abutments and pre-cast concrete stringers.

NEW WESTMINSTER DISTRICT

Roads

Maintenance: The District carried out a normal maintenance program with emphasis placed on crack sealing, ditching and other drainage improvements.

A major crack sealing program was completed on Southwest Marine Drive along the 4-lane concrete section of this highway.

Maintenance betterment programs to widen and stabilize shoulders were completed on Route 10 between 188th Street and 192nd Street and on Route 99A on Woodwards Hill by piping in the ditch and paving the shoulder.

Drainage betterments were carried out on Scott Road in several locations between River Road and Old Yale Road as well as on Route 1 at the First Avenue Interchange.

Landscaping betterment programs were completed on Route 1 at the Lougheed Highway Overpass and on Route 99 at the Campbell River and Ladner Interchanges.

The District experienced a longer and colder winter with snowfall above normal and accumulation of up to 152 cm in some areas.

Construction: Improvements were made to the tapers and radius for eastbound traffic on Fraser Highway turning on to the Langley Business Bypass.

The old pedestrian overpass on Sea Island Way was removed and refurbished then erected at the intersection of the King George Highway and 152nd Street.

A major upgrading of new chainlink fencing was carried out on Route 1 in Burnaby and Surrey with a total of 5824 m completed.

The District guardrail program this year included the placement of Thrie Beam median barrier at the median piers of the Campbell River, King George, Matthews, 152nd Street, 112th Street, 16th Avenue and 24th Avenue Overpasses on Route 99.

Paving: Ministry crew paved Strong Road in the Anmore area in late March. A section of Kensington Avenue north of Deer Lake Overpass was recapped to improve the highway profile. On Pacific Highway at the Nicomekl River Bridge crews scarified the old asphalt surface then repaved the deck using a strengthening mat made of fibreglass placed in the bottom lift.

Major machine patching works were carried out on Barnet Highway at Kask Hill and along the section through Port Moody, Southwest Marine Drive at the intersection of Chancellor Boulevard at U.B.C. and along Westminster Highway from Knight Street to No. 5 Road.

Bridges

The center spans on the Sturgeon Slough Bridge were rebuilt with additional piles and stringers placed; the deck was replaced and widened. At the Royal Avenue Overpass the railing was galvanized. On Route 99 at 16th Avenue and 24th Avenue crews concreted the bridge and slopes. Queensborough Bridge main pier protections were completely rebuilt. At the George Massey Tunnel the crew rebuilt the mid-river louvers and built a catwalk over the mid-river sumps.

Ferries

Albion: The level of service was reduced on April 1, 1984 on the Klatawa to 20 hours per day from 24 hours and on the T'Lagunna from 16 hours per day to 10 hours, but on September 1, 1984 the T'Lagunna's schedule was increased to 15 hours per day. Passenger volumes were down 5.9% and vehicle traffic down 3.7%. A new terminal attendant's building was erected in May. In December the Klatawa went into refit and for conversion to C.N.G.

Barnston: On April 1, 1984 the service at Barnston Island was taken over by a private contractor, Western Pacific Marine. Passenger volumes were down 11.7% and vehicle traffic down 5.2%.

CHILLIWACK DISTRICT

Roads

Maintenance: Road Crews throughout the District were kept busy maintaining ditches and cleaning culverts as well as mowing and brushing rights-of-way. Magnesium chloride was used for dust control during this past year, with good reports from foremen as to its quality.

Crews were very busy sanding and salting roads as we had an unusual amount of bad weather. Crews started snow removal in early November and continued until mid-March. One major snowstorm on December 28th and 29th of 1984 gave crews major problems. The Trans Canada No. 1 at No. 3 Road had white out conditions and the Highway was closed for about 15 hours.

Bituminous Surfacing: District Paving Crew did minor recapping of various sections of roads throughout the district. Abbotsford Foreman Area had 0.9 km of grinding and machine patches on the Trans Canada Highway. Mission Area had many small areas of recapping totalling 1.75 km. Cultus Lake Foreman Area had recapping totalling 3.1 km. Rosedale Foreman did major recaps at Silver Skagit and Jones Hill on the Trans Canada caused by flooding in early 1984.

Bridges

District Bridge Crew was kept busy doing general maintenance and accident repairs. Reconstruction of Brooks Road Bridge, Q6000, Morris Valley #2, Q6073 and Malcolm Road, Q6131 were completed. They are now concrete structures. McConnell Creek, Q6037 and Carratt Creek, Q6070 are being constructed by contract for the Ministry of Environment. Silver Skagit #2, Q6544 is also in the process of being rebuilt, at this time only the center pier piles have been installed.

Ferries

Boston Bar Aerial Ferry had regular maintenance and upkeep. A new bridge is being built to replace this ferry.

REGION 2

(D.C. MacVicar P. Eng., Acting Regional Director Highways, Kamloops)
Kamloops, Salmon Arm, Vernon, Penticton, Merritt
Lillooet, 100 Mile House and Kelowna Districts

KAMLOOPS DISTRICT

Roads

Maintenance: Routine maintenance was carried out on all roads within the District and also within the rural boundaries of the City of Kamloops. Spring was a little wetter than normal and the summer a little drier, which resulted in a small amount of extra dust abatement. Less grading was required, mainly due to an early winter. Patching was considerably less due to some pavement contracts over the last two years. 28,000 m^3 of gravel was placed on various roads and 7,000 m^3 more on shoulders.

The winter started earlier than usual and provided much more snow in all months except January. All major winter activities exceeded the norm, especially plowing and salting.

Construction: Day Labour was very light this year and was concentrated on the Princeton-Kamloops Highway 5. Widening prior to paving and the re-alignment of the Long Lake Road junction were completed. Preliminary surveys and pole moves were also done on Highway 5 near the Trans Canada junction as part of a four laning project. Our guardrail and fencing programs provided installation of 825 m of guardrail and repair or replacement of 39,450 m of fence and also installation of four cattleguards, all on various roads.

Bridges

Routine maintenance was carried out on all bridges in the District. Two wooden bridges, Hemp Creek 6261 and Lemieux Creek 4, 6291, were replaced with concrete box beam structures.

Ferries

Annual maintenance was carried out and new bridle lines installed on both McLure and Little Fort ferries. One new ramp and new bearings in the bridle carriage were installed and the ferry shack replaced at McLure. The McLure ferry was returned to service in early spring after major repairs and both ferries were shut down for three months due to ice for three months.

SALMON ARM DISTRICT

Roads

Maintenance: The 1984-85 fiscal year was normal with routine maintenance scheduled and completed as planned. Once again, emphasis was directed towards regravelling various roads, ditch cleaning and machine brushing. Through the assistance of maintenance betterment funding, a number of intersections were upgraded with left turn slots and deceleration lanes installed.

The Salmon Arm District also called nine local contracts covering laundry, flagging, fencing, garbage pickup, machine paving, and painting and traffic markings.

Winter started 3 - 4 weeks earlier than normal and lasted well into March this year. The District was able to stay within the maintenance funding as January's costs were down.

The slump in the economy was reflected in the development of subdivisions with only 142 lots approved and 2.05 km of new road created. Permits were also below average with only 279 permits issued covering the installation of utilities and accesses.

Project funding was limited to the installation of guardrail and fencing projects. The guardrail warrants on the Kamloops-Vernon Highway 97 were completed with the installation of 1220 m of Type A guardrail on various sections from km 8.03 to km 58.97.

The fencing projects completed 8901 m of Type C standard barb wire fence on Trans Canada Highway 1 and 9674 m on Kamloops-Vernon Highway 97.

Bridges

Bridge maintenance was conducted as planned with the addition of support structures on Ross Creek, Lower Kent, Forestry Cabin, Charcoal Creek, Boulder Creek, and Campbell Creek bridges to offer adequate loading capacities.

Also, a new 40 m steel girder bridge in Seymour Arm was acquired from the Ministry of Forests and required the addition of a steel I-beam support structure and riprap on the north abutment due to heavy scour from the Seymour River.

In addition, Rivers Bridge on White Lake Road was replaced with a 9.8 m prestressed concrete box beam and Hautala Bridge was replaced with a steel arch culvert.

VERNON DISTRICT

Roads

Maintenance: Vernon District experienced minor flooding in the Okanagan Landing area. Unusual spring run-off with frozen ground was a contributing factor.

Activity increased for ditch cleaning and drainage works as well as switching dust control from used oil to magnesium chloride in all Foreman areas with excellent results.

Numerous safety projects were completed including moving utility poles, site distance improvements, widening shoulders in school areas, and traffic island controls. All with very gratifying results.

Heavier than normal snow removal conditions starting from October 15, 1984 through to March 30, 1985 kept winter maintenance crews busy.

Construction: District forces completed gravelling and minor realignment on various roads with six km of new and recapped paving completed.

The Regulatory function was normal with the processing of 107 subdivision applications and the issuing of 637 permits.

Bridges

The former Enderby Bridge over the Shuswap River was replaced with a new concrete steel structure and re-named the "Len Bawtree Bridge" which opened in June, 1984.

Jones Creek Bridge on Highway 6 Vernon-Slocan at the Village of Lumby was replaced with a concrete box beam structure as well as a new pile trestle structure replacing the Albers Bridge. Lesser works were completed on another ten structures.

PENTICTON DISTRICT

Roads

Maintenance: A heavy spring run-off caused numerous wash outs on district side roads and a heavy regravelling program, as well as culvert maintenance, was necessary in some areas.

Major highway routes including Highways 97, 3, and 3A had several sections re-capped and patching activity was high in all foreman areas.

A crack sealing program was carried out in the early summer and major routes treated included Okanagan Highway 97, Richter Pass and Highway 3 West of Princeton.

Several side roads were treated with various dust control products to determine suitability of magnesium chloride, calcium chloride and lignosulphonate. These applications took place on the Princeton - Summerland Road as well as three Penticton area roads.

Winter maintenance was heavy during the first few months, particularly on the higher mountain routes. Temperatures moderated after February and maintenance was normal. Ski Hill area such as Apex Alpine and Mount Baldy had heavy snowfall accumulations and maintenance was heavy for the entire winter months.

The bridge maintenance program included the re-decking of several minor bridges as well as a major pier replacement on the Ashnola Bridge near Keremeos.

Construction: The Penticton Channel Parkway was officially opened on July 13, 1984, after completion of Phase II of the project. The route covers 6.3 km and provides a bypass around the City, as well as access to the business area.

In September, 1984 a construction project was begun to upgrade approximately 16 km of the Oliver-Camp McKinney Road within the Penticton Highways District in order to provide better access to the Mount Baldy ski area. The existing roadway was widened and improved, and the project also included a new 2.5 km alternative route around farming and ranching areas. The remainder of the project was located within the Grand Forks Highways District. The road was officially opened on December 7, 1984.

Various areas were included in the guardrail placement program in 1984, including Highway 97 and the Anarchist Mountain section of Highway 3.

The Schedule II Highway fencing program was again carried out in all areas with approximately 17 km of new fence construction being completed.

The capital bridge construction program included the rebuilding of two timber bridges located south of Oliver, over the Testalinda Creek.

MERRITT DISTRICT

Roads

Maintenance: Gravelling activities continued on Kane Valley Road. Also sections of Douglas Lake Road were gravelled. A section of Highway 5 North in the area of Stump Lake was crack sealed using Hydrotech 6165.

Extensive dust control was undertaken on the Coldwater Road and Coquihalla access road. A ditching program was undertaken on Meadow Creek Road in the area of last years reconstruction. A considerable amount of hand brushing was carried out on Botanie Road to open it to daylight and improve sight distance.

Winter came earlier than normal with heavy snow falls at the beginning of November that closed the Trans Canada Highway for two days because of avalanches. Intermittent snow falls continued through December. There were minimal amounts of snow fall in January. Winter conditions were moderate from then on although winter conditions continued longer than normal.

Construction: Completed the removal of rock on a project on Highway 8 then gravelled and paved. Riprapped along the shoreline on Nicola Lake on Highway 5 to improve road bed protection, then widened the shoulder and placed guardrail along the edge of the Lake at several locations. Reconstructed 4 km of Meadow Creek Road then gravelled and paved, this project completed the reconstruction of Meadow Creek Road throughout its entire length. The summer and winter maintenance and upgrading of the Coquihalla access road was undertaken by District forces under capital funding. The Highway 5 - Douglas Lake Road intersection was reconstructed and gravelled to improve the alignment and provide turn lanes. Extensive work was carried out on Highway 5 - the Nicola Bluffs along Nicola Lake to improve the alignment, approximately 100,000 m^3 of rock was removed and placed in the Lake to facilitate the improvements, the grade was then constructed on the new alignment and gravelled. Several of the fill slopes on last years Meadow Creek Road reconstruction project were stabilized by the installation of berms along the toes of the fills.

The approaches to the Three Mile and Curnow Bridges were partially constructed and rip rapped to facilitate the start of their reconstruction by contractors. Sections of Highland Valley Road were reconstructed to improve the strength of the road bed in preparation for paving.

On Schedule II fencing the bulk of the works was undertaken on Highland Valley Road and Meadow Creek Road in anticipation of the reclassification of these roads to Schedule II. Fencing was also carried out on Highway 5 North.

Bridges

The reconstruction of the Potatosillihee Bridge on Highway 8 was completed. District forces constructed the concrete pier caps and abutments and placed the concrete box stringers. A contract was let for the decking and construction of the parapets. Several structures were also installed for Construction Branch to facilitate access to construction sites on the Coquihalla Highway.

A structure was constructed using I-Beam stringers at Coldwater Crossing #4. A T.S.R. Bailey was installed over the Nicola River on the Merritt By-pass. The D.S. super Bailey that was removed from the Potatosillihee Bridge site was reinstalled at Coldwater Crossing #6 by Kingsvale.

Ferries

The Lytton Ferry operated normally throughout the year except for some minor shutdowns to inspect the main cable and to replace the counterweight rope, and the bridle cable. The approach ramps were both reconstructed during low water.

LILLOOET DISTRICT

Roads

Maintenance: The Lillooet Highways District performed regular scheduled preventative maintenance in all the Foreman areas. The Lillooet-Pioneer Road, between Lillooet and Goldbridge was treated with magnesium chloride dust palliative upon 74.4 km of it, 46.9 km in the Lillooet foreman area and 27.5 km in the Goldbridge foreman area. The months of January and February experienced predominantly freezing temperatures resulting in a significant decrease in salt application but an increase of sand utilization. A local contract was tendered to install 30 m of 1200 mm diameter C.M.P. on the Trans Canada Highway 7.1 km north of Spences Bridge. This installation replaced several culverts which continually blocked during heavy rains or spring freshets.

The Avalanche program recorded average snowfalls therefore no major road closures were necessary. The Duffey Lake Road was closed for three days from January 18 to January 21, 1986.

Construction: The fill over Bernard Creek on Highland Valley Road continued this year with an additional four km of reconstruction to the summit. The Barnes Lake Corner reconstruction was started in March, 1986. An additional 17 km of fencing was installed by local contract. This completed the fencing and Highland Valley Road was granted Schedule II status.

The Cache Creek Airport improvements in preparation for paving were completed this year on behalf of Paving Branch.

A widening of Trans Canada 1 at the junction with Ashcroft-Cache Creek Road, was done to provide an acceleration lane.

Lower Hat Creek Road was widened and upgraded this year as was Back Valley Road.

Additional guardrail was placed along Route 12 in the Lillooet foreman area.

Bridges

The Blowdown Bridge was completed and the old bridge was dismantled. This structure is unique as it utilizes a performed modular abutment.

A Bailey bridge was installed at Rodger Creek in anticipation of reconstruction.

An extensive deck patching program on the Ashcroft of the Ashcroft Bridge was undertaken.

Bonaparte #4 experienced continuing deck failure and additional repairs were undertaken.

100 MILE HOUSE DISTRICT

Roads

Maintenance: An unusually high snow pack and above moderate spring runoff caused isolated erosion and washouts throughout the District. A concentrated effort using minor betterments and maintenance funds was directed towards drainage activities.

This allowed the District to concentrate on a balanced program of maintenance activities with greater emphasis on machine patching of Highway 97. For the remainder of the season, all foreman areas carried out planned maintenance programs of grading and dust control, numerous ditching and gravelling projects. Machinery and hand brushing was carried out on main roads improving sight distance.

Construction: 600 mm guardrail was placed on 93 Mile–Little Fort Highway in potentially dangerous locations.

Fencing of 18.6 km of 93 Mile–Little Fort Highway was done by contract under Schedule II.

Gravelling of shoulders on Horse Lake and Exeter Station Roads was carried out, along with gravel projects on Black Dome and Gang Ranch Roads, Meadow Lake, Pine Valley, Rail Lake, North Bonaparte and Little Green Lake Roads and the Ruth Lake area roads.

Bridges

Churn Bridge 6864 was replaced with an 18.2 m steel span on a steel pile trestle structure. This bridge collapsed two years ago under the weight of a truck and trailer unit hauling ore from Auron Mines.

Ferries

The Big Bar Ferry continued operation from spring to late fall and was taken out of service for the winter. Pedestrian service was provided by the aerial ferry over the winter months.

KELOWNA DISTRICT

Roads

Maintenance: Spring run–off was moderate and no more than the usual flooding was encountered. The District's maintenance program proceeded according to plan with emphasis placed on ditch cleaning, shoulder repairs and road surface treatment, throughout the District. As an alternative to expensive road paving, 26 km of gravel road was re–elevated. Experience has taught that re–elevating does reduce maintenance costs and provides for an improved travelling surface for motorists. It should be noteworthy that the cost of re–elevating in the District is $5,500 per kilometre. Dust control was maintained over 56 km of gravel roads throughout the District, using lignosulphonate. Winter arrived early. Low temperatures and heavy snowfall at higher elevations resulted in earlier then usual winter activities, particularly to Big White access road. Snowfall at lower elevations was relatively light, however, the numerous light snowfalls resulted in extensive usage of sand and salt.

On October 10, 1984, at approximately 9:20 p.m., a slide occurred on Highway 97 at the bottom of the Summerland Hill in the area of Lakeshore Drive South. A silt bluff overlooking Okanagan Lake failed, dumping approximately 4000 m^3 of soil onto the Highway. Four loaders were required to re–open the highway by 1:30 a.m., October 11, 1984. Another small slide occured in the same area in the Spring of 1985. Additional small soil falls are expected and under advisement from the Regional Geotechnical and Materials Engineer, a catchment was constructed to reduce the danger to vehicle traffic.

Construction: No major day labour projects were carried out during the fiscal year.

A reversible lane control system was installed over the length of the Okanagan Lake Bridge, changing the traffic pattern from two to three lanes. District Forces were called to assist with certain aspects of the project, particularly the construction of "Over–Width Load" waiting areas at the east and west approaches. The lane control signals were activated on July 15, 1984. It must be said that many favourable comments from the travelling public were received since the opening of the lane control system.

Bridges

Repairs to several bridges were carried out in the District. The Mill Creek Bridge 1, on the Postill Lake Road, was replaced with a Bailey bridge on a temporary basis. The Mill Creek Bridge 6, on the Old Vernon Road, was replaced with a complete new structure.

REGION 3

(W.M. Sproul, P. Eng., Regional Director Highways, Nelson)
Nelson, Rossland, Grand Forks, New Denver, Cranbrook,
Fernie, Golden, Revelstoke and Creston Districts

NELSON DISTRICT

Roads

Maintenance: A balanced program of maintenance activities was carried out with a heavy emphasis on gravelling at the end of the year after a fairly light winter in which temperatures remained low throughout January, reducing plowing and sanding activities.

Construction: Work was continued on Highway 3A east of Nelson with considerable right-of-way acquisition and clearing undertaken. A total of 2.65 km of sealcoating was undertaken.

Bridges

Reconstruction was carried out on the Campbell Bridge at Lower Six Mile Road. Pass Creek 5 bridge was replaced by a multiplate culvert, Airy Creek Bridge was completed and the Salmo River Bridge and the Erie overhead were surface-treated.

Contracts were called for the removal of the Passmore Bailey bridge, Slocan Park Bailey bridge, and the Appledale Bridge. The Passmore and Slocan Park bridges are being replaced by two spans of the old Taghum Bridge.

Ferries

Summer traffic remained similar to recent years. Major refit was carried out on the M.V. Anscomb. New spans were installed on the Harrop Ferry.

Major work was carried out on the landings at Balfour and Kootenay Bay with both approach spans replaced. This required a one week closure of the Kootenay Lake ferry system in May. New hydraulic lift systems were installed at the aprons at Balfour and Kootenay Bay.

ROSSLAND DISTRICT

Roads

Maintenance: While restraints resulted in somewhat reduced establishments from April to November, winter maintenance crew levels were maintained as previous years with auxiliary help hired for shift work from November, 1984 to March, 1985. District maintenance, both summer and winter, provided a good level of service on all highways in the District. Emphasis was placed on machine patching with machine laid hot-mix asphalt to overlay poor pavement sections requiring constant patching on the Rossland-Trail Hill, East Trail-Glenmerry sections of Highway 3B and some short sections on Highways 3, 22 and 22B. Railway crossings at Rivervale and Highway 22 were raised and realigned by C.P.R. crews resulting in considerable work by District forces to tie in roads to tracks for vehicular traffic use. Crack sealing by contract was carried out on the Castlegar - Meadows section of Highway 3 under the direction of the Regional Roadside Landscape Supervisor; more sealing by contract is proposed as Program 1984-85 was quite successful.

Other activities given more emphasis were ditch cleaning, culvert maintenance, grading and sign maintenance in all foreman areas. One washout on Casino Road, April 6/84 required more than normal maintenance as a large culvert and fill was required to restore the road to normal use. The guardrail program funds were used to purchase and stock material for placement next fiscal year on Highway 3, Blueberry-Paulson area. Purchased guardrail was stockpiled in Nancy Greene Pit. Crushed gravel was produced by contract and stockpiled in Nancy Greene Pit (7500 m^3) for use as winter sand.

Winter came earlier than expected with the heaviest snowfall hitting all areas of the District November 1, 1984 and subsequent storms continuing with little let-up until January, 1985. Although little snow fell at lower levels in the New Year, temperatures dropped below freezing and remained so through January, February and March with no warming periods or rain as has been the norm in past years. Material usage (sand/salt) was heavy in early winter, mid-October to the end of December, tapering off to low usage January-March/85. Rossland-Castlegar crews worked 10-hour shift patterns during the winter with Fruitvale working seven-hour shifts. Mechanical staff maintained equipment in good running condition and very little time was lost to equipment breakdowns over the winter months.

Bridges

Bridge cleaning and repairs to decks, railings etc. were carried out as required throughout the District. Under the bridge day labour program a section of Beaver Creek Bridge 2, Fruitvale Area was eliminated with the installation of an arch plate culvert by the bridge crew. The snowplow and tailgate sander rack in the Rossland Yard was improved by the bridge crew. New cables (one drive, two guides) were replaced on the Castlegar Ferry by the bridge crew.

Ferries

Minor repairs were undertaken as required on the Castlegar Ferry by mechanical and ferry crew personnel. Very little shutdown was required as repairs were minimal. Down time totalled approximately five days, with cable replacement and repairs to the hull accounting for approximately four days of the total. Hours of operation have been reduced from previous years as the ferry now operates 15 hours daily from 6:00 a.m. to 10:00 p.m. with the crew working seven and a half hour shifts.

GRAND FORKS DISTRICT

Roads

Maintenance: There was some potential for flooding in May but weather conditions moderated at the critical time and the threat was eliminated.

Regular maintenance was carried out and approximately one km of hot mix, paver laid, overlay patches on Highway 3 west of Rock Creek was carried out. The District also completed a 2.7 km pulvi-mix project on the North Fork Road in July, and a six km sealcoat project in August. Some gravelling and rock blasting were carried out on the summit bypass section of Christian Valley Road and six km of gravel surfacing on Santa Rosa Road was completed in March.

Winter came early with the first major snowfall in late October and continued through to the end of March with very little break. Although most of the snowfall came in November and December, temperatures remained cold throughout the winter. Without the customary January thaw.

Due to the cold dry conditions through most of January and February, load restrictions were not imposed until mid March.

Construction: Day Labour construction was very limited with only one project underway during the year.

A joint project between the Ministry and Mt. Baldy Recreations constructed a six km access road providing a road connection from Oliver to Mt. Baldy giving Okanagan traffic a 15 km shorter access to Mt. Baldy which was used for some of the B.C. Winter games activities.

690 mm guardrail was installed at four locations on Highway 33, Rock Creek-Kelowna. The fencing program continued, with the majority of the work being carried out on Highway 3, Crowsnest.

Bridges

Repairs were made to the concrete curb on Ingram Bridge Q0430. Structural repairs were made to Cooper Bridge Q0681. Cochrane Bridge Q6416 was replaced with two 1220 mm culverts. Upper Williamson Bridge Q0946 over Boundary Creek near Greenwood was replaced with a new log stringer structure.

NEW DENVER DISTRICT

Roads

Maintenance: An early Spring and normal run-off enabled the District crews to start summer activities early. The main activities were patching, both hand patching and machine patching, and ditching. Magnesium Chloride was placed as dust abatement on 63 km of dirt and gravel roads. Heavy rains at the end of June caused several creeks between Burton and Fauquier on Highway 6 to deposit large amounts of rock across the highway and to wash out an arch culvert at Stoney Creek. The highway was closed for five days while the highway was cleared, and a 18.2 m Bailey bridge was constructed at Stoney Creek.

Construction: There was no major construction. The Provincial Sealcoat Crew sealcoated all the damaged areas on Highway 6, and also sealed the completed construction on the Monashee, about six km, 12 km was sealed on the Nakusp Hot Springs Road.

Bridges

Gold Hill Bridge was extended with 15.2 m box beams and completed with a concrete deck. The wood piling on the abutment on the Lardeau River Bridge, a quadruple single reinforced 67 m Bailey, failed. New H-piles were driven and the deck was replaced. The old wood bridge structure at Davis Creek was dismantled and replaced with a 29 m Bailey.

Ferries

Ferry operations were normal. The M.V. Needles was sent to relieve the M.V. Shelter while it was under refit, and a tug and barge maintained service on the Fauquier-Needles crossing.

CRANBROOK DISTRICT

Roads

Maintenance: District Roads were all well-maintained during the year with some manhours transferred to maintenance management activities of a higher priority.

Priority summer activities included ditching, grading, patching, road base repair, culvert and sign maintenance.

Dust abatement in the form of calcium chloride, magnesium chloride and calcium lignosulfonate was placed on 40 km of gravel and dirt roads.

Heavier snowfalls and colder temperatures near the end of 1984 increased the chemical and sand usage considerably; however, minimal snowfall in 1985 reduced the total usage for the winter to a figure closer to normal.

Construction: Capital Day Labour work involved construction and placement of pit run gravel on 0.7 km of the Cranbrook North Interchange.

Other work at the Interchange involved stockpiling top soil and decorative rock at the Interchange, plus landscaping the slopes for placement of the rock and top soil. General cleanup of the area, including the installation of the revised drains for the structure and buried conduit for the telephone line in the vicinity of the overpass, was also completed.

Minor betterment work on District roads included the construction and gravelling of 1.1 km of new road, while 14.7 km of road received a final lift of 19 mm crushed gravel surfacing in preparation for flushcoating. Approximately 350 new telespar sign posts were installed throughout the District utilizing existing sign islands and constructing new islands where required.

Three Schedule II Fencing contracts were awarded and construction of 5.3 km of new fence was completed.

195 m of Type A Roadside barrier was installed on the approaches to five major Bridge structures in the District.

Bridges

Curzon 872 - 55 m of curbing were rebuilt and 12 m repaired. Also, a wing post was replaced and one fence panel was repaired after an accident.

Moyie River to Yahk 515 - Rebuilt 40 m of curb and repaired two wing posts and one inner post.

Yahk Slough 1283 - Rebuilt 18 m of curb, including portions of sidewalk on the upstream side.

Placed concrete footing and constructed a frame trestle including additional timber to strengthen original ballast wall on south end of East Kootenay Penstock Bridge 6344.

The bridge crew constructed a new salt shed in Yahk Pit 35-22C and B.C. Buildings Corporations undertook renovations of the stockroom in the Cranbrook Shop, including new offices for the mechanical foreman and trades supervisor.

FERNIE DISTRICT

Roads

Maintenance: The District had an extensive patch paving program in the Sparwood - Elk Valley area. Ditching in the Sparwood and Jaffray areas improved drainage. Machine brushing in the Jaffray area and right-of-way widening in the Fernie area greatly improved sight distances on Highway 3. The Jaffray area required extensive fence repair due to wildlife damage. Calcium chloride was used for dust control. Magnesium chloride was also used on an experimental basis. Earth slides on the Morrissey Road in May and June created an ongoing maintenance problem of ditching and debris removal. Fitzpatrick Road was partly reconstructed on a new alignment and Burton Lake Road was gravelled with a minor realignment constructed. 550 m of no-post concrete guardrail was installed west of Fernie on Highway 3.

The area experienced an early winter with an above average snowfall in September and October. The weather in January and February was cold and clear with little to no precipitation. There were no winter rains which resulted in no unusual drainage and flooding problems.

A snow storm with high winds on the evening of October 30, 1985 resulted in closure of the Crowsnest Highway 3 from Elko to the Alberta border and Highway 43 from Sparwood to Elkford.

Bridges

A sudden rain storm in the drainage basin of Big Sand Creek resulted in extreme erosion to the north approach of Betania Bridge. Major repairs were done to Morrissey Bridge. This consisted of new corbels and cap installed at the centre pier and a false bent placed at the north end abutment. This permitted the load limit to be increased from five tonnes to 20 tonnes. Fence panels on Hosmer Bridge and North Fernie Bridge were removed for galvanizing.

The east pier on the West Fernie Bridge was encased in a 0.3 m concrete slab and a new concrete cap constructed. The north bent at Sand Creek Bridge was reconstructed with new log stringers, cross ties and deck. Five bridges on Highway 3 were resurfaced.

GOLDEN DISTRICT

Roads

Maintenance: Hot-mix patching was carried out on the Trans Canada Highway, both east and west of Golden, and on Highway 95 at Luxor for a total distance of three km.

Magnesium and calcium chloride were used to control dust where required for a distance of 21 km on various gravel roads throughout the District.

Regravelling was done on the following roads: Chalmers 83, Columbia Lake 107, Crandall 324, Golden Donald Upper 42, Hartley 39, McBeath 70, Thomas 309 and Wapta 74 for a total distance of 15.9 km.

Major brushing was done on various side roads.

Normal ditch cleaning, shouldering and sign maintenance along with snowplowing and sanding formed the remainder of the maintenance program.

Construction: Traffic islands were constructed at the junction of the Trans Canada Highway and Golden Donald Upper Road 42 to improve the flow of traffic at this intersection.

The access approach to Donald Road 293 from the Trans Canada Highway was widened to accommodate a future turn slot.

Work was undertaken to facilitate the moving of a level railway grade crossing on the Blaeberry River Road 372. This work will improve the grade and sight distance down to the Mountain Mineral Silica Plant and also will provide a turn slot on the Trans Canada Highway.

A stairway was constructed on the approach fill to the Invermere Overhead to accommodate the citizens of Athalmer.

Bridges

At Spillimacheen on Westside Road 2, Channel Bridge 6340 was replaced by a new 21 m concrete beam structure with treated pile abutments. On Campbell Road an old wooden culvert was replaced by a new 6 m treated timber bridge. The 12 m Klikwallie Bridge 6318 on Brisco Road had major reconstruction with new cross ties, deck, and wheel guard. South Salmon Bridge 6337 had its deck and ballast wall repaired.

Athalmer 517, Toby Creek 29, and Hospital Creek 6320 bridges were repainted.

On Highway 93/95 Canal Flats 22, Dutch Creek 316, Fairmont Overhead 2189 and Fairmont 967 bridges had their fence panels galvanized. Furthermore, the above bridges along with Canal Flats Overhead 2206 were resurfaced and new asphalt approaches constructed. The signal light installation at the approaches to these bridges; along with the removal and replacement of all guard rail were done by the Golden Bridge Crew.

The fencing on the outside curve of Quartz Creek 1607 was reinforced by flex-beam guard rail. This was done to help reduce the amount of damage being done to the original bridge fence.

Rip-rap was reinforced on Jumbo 6330 and Passlocks 6334. Also, channel work was done for Hedburg 8129 and Horsethief 258.

On Toby Creek Road 4, 750 m of no-post guardrail was placed by the Golden Bridge crew. Other miscellaneous projects such as a new cover and gate compartment were built for the Golden Storm sewer force main along with the construction of road barricades and a litter barrel stand. Road closure barricades were reset on the Trans Canada Highway at Yoho Park gate and Golden west.

All bridges on the Trans Canada Highway were inspected by the Bridge Inspection Unit.

An annual major problem was the removal and burning of driftwood from all Columbia River bridges along with material from Horsethief and Toby Creek bridges.

All permanent bridges had minor maintenance and repair carried out where necessary.

REVELSTOKE DISTRICT

Roads

Maintenance: Regular maintenance was carried out throughout the District. The spring run-off was fairly mild with no major problems. In early July, heavy rains created some minor problems.

Erosion of the Trans Canada Highway fill by the Illecillewaet River in the Albert Canyon area caused a slope failure. This resulted in extensive remedial work to correct the problem.

The winter, which started early on October 26, saw a near normal snow pack by the end of the season. There were three major avalanche cycles, which saw the Trans Canada Highway closed twice and Highway 31 at Galena Pass closed once. 1,100 m of 690 mm guardrail was installed.

Construction: Minimal construction was carried out this year. Shoulder widening was carried out on Highway 23 (Revelstoke-Shelter Bay section). Some corner and shoulder widening was completed on Beaton-Armstrong Lake Road 800. The approaches were completed on the new Armstrong Lake Bridge on Highway 31.

Bridges

Routine maintenance was carried out on all bridges within the District. The new Armstrong Lake Bridge had a concrete wearing surface overlay installed on it prior to opening it to traffic. Riprap was placed around the main pier on Bridge 303 - Illecillewaet at Greely. The steel railings on the last three bridges which had not been treated, were removed and treated with a hot dip galvanizing.

Ferries

The M. V. Galena maintained a regular schedule except for two main periods. On May 1 to May 17, the ferry was out of service for re-engining and on September 11 to September 27 for refit. During these times, the M. V. Needles maintained a shuttle service.

The ferry ramps on both sides were widened and protected with rip rap material.

CRESTON DISTRICT

Roads

Maintenance: An early spring allowed maintenance activities to get underway early in April. Considerable crack sealing and machine patching were carried out on Highway 3. The Headquarters Resurfacing Crew carried out a major sealcoating program including 56 km on Highway 3, 35 km on Highway 3A, 13 km on Highway 21 and 23 km of side roads.

The early spring resulted in earlier than normal mowing and dust control. Although January temperatures were rather severe, it would appear that little frost damage occurred. Subdivision and permit applications were fewer than last year with 68 subdivisions and 92 permits processed.

Winter started early at Kootenay Pass with heavy snowfalls reported in November and December. However, January set a record minimum with only 26 cm of total snowfall. The long, unseasonable cold month of January created a very weak snowpack. Total snowfall at Kootenay Pass was 977 cm. There were 231 recorded avalanches of which 205 were controlled by explosives. Total road closure time was 130 hour, 10 minutes. The longest closure was 41 hours December 7th to 9th. Most of the closure time was in the form of "minor delays".

Construction: Only minor road improvements were carried out in the three Foreman Areas. Our Guardrail Program consisted of the installation of 551 m of 690 mm no post guardrail and our Schedule II Fence Program resulted in 1320 m of fencing completed.

Creston set a high priority on safety and accomplished a "0" frequency plus "Most Improved District".

Bridges

Regular maintenance was undertaken on 28 structures throughout the district with several minor repairs completed. One bridge at Crawford Creek required major repairs to maintain it until a new structure can be funded.

REGION 4

(L.A. Broddy, P. Eng., Regional Director Highways, Prince George)
Prince George, Quesnel, Dawson Creek, Fort St. John,
Vanderhoof, McBride and Williams Lake Districts

PRINCE GEORGE DISTRICT

Roads

Maintenance: The light snowfall from the previous winter melted early in the spring of 1984. With light runoff, very minor road washouts or flooding were encountered.

There was no heavy frost heaving or damage caused to trunk highways or local roads. There was one extensive shoulder failure on the John Hart Highway 97 at Summit Lake which required repair and ditching betterments.

In April, 1984 the District carried out extensive crack sealing on all District roads. Major patching was required on Highway 16 in the Slim Creek area.

Road mix asphalt was placed on 4.5 km of area roads utilizing old reclaimed asphalt grindings from Yellowhead 16 East. Four km of this was the seal coated with graded aggregate. To date this surface has stood up very well.

During July, 1984 the weather was very wet and this caused some problems in the ditching and shaping of area roads. Weather later cleared and so road shaping, ditching and maintenance programs then progressed well.

A heavy rainstorm in October, 1984 once again caused flooding on the Upper Fraser Road. Three culverts were washed out east of Upper Fraser necessitating installation of larger culverts in two locations and construction of a 12.2 m prestressed concrete stringer pile trestle bridge in the third location.

Snow and cold weather came early in the fall with total snowfall for the winter slightly higher than average. Freeze-thaw cycles in February caused a few minor problems in frozen culverts and drainages systems.

Expanding the District's ongoing studies on winter road maintenance, use of road salt dropped dramatically over the winter as applications were made with regard to more pavement temperatures than ambient air temperatures. This method, plus the use of a coarser grained sands, still resulted in the maintenance of a bare or nearly bare pavement standard throughout the District.

Construction: Burning of brush piles was carried out on 15 km of John Hart Highway 97 north of Bear Lake. 5.6 km of fencing was completed under the Schedule II Highways Fencing Program. 165 m of guardrail was placed on trunk highways.

Bridges

The District bridge crew spent the first three months of the 1984/85 year at Fort Nelson assisting in assembling an Acrow bridge across the Fort Nelson River. The old Fraser Bridge (C.N.R.) required extensive welding on the deck once again. Dodd Bridge on the Upper Mud Road was replaced with a 12.2 m prestressed concrete stringer bridge. Red Mountain Bridge at Longworth was replaced with a log stringer bridge. Assoignon Bridge (12.2 m prestressed concrete stringer) was constructed on the Upper Fraser Road to replace the former culvert installation which was washed out in October rain storms. Log stringer strengthening and pile protection was completed at the Kennedy Bridge. Ice breakers and a new sidewalk was completed on the Pack River Bridge. Damage repair and regular maintenance of bridges occupied the remaining time of the Bridge Crew.

Buildings

The bridge crew completed moving from First Avenue complex to new facilities on 15th Avenue.

The carpentry shop was re-established in new facilities on River Road. A conference room and dry storage area was also established in this same building.

QUESNEL DISTRICT

Roads

Maintenance: Light snow conditions during the winter months led to only minor spring break-up problems. A fair amount of winter damage was incurred most notably in the McLeese Lake Foreman Area. Dust control was undertaken early in the season over 120 km of road. Heavy rains hampered maintenance in the late summer and early fall.

Construction: The frontage road system on Cariboo Highway 97S was completed with approximately 0.6 km of new road constructed and paved, 1.2 km of widened shoulders were constructed and paved on Maple Drive 223 and base construction was completed for left turn movements at Soda Creek - McAlister Road 248 intersection with Cariboo Highway 97S under the safety projects. Some 22 km of Schedule II fencing on Cariboo Highway was completed under contract and 850 m of no-post guardrail was installed on various District roads.

Bridges

A new 33.5 m precast concrete bridge was constructed at Beavermouth. A new six m prefabricated steel structure was installed at Kirkoff Creek and a new 4.9 m sawn stringer-mudsill bridge was constructed on Norgaard Creek. Extensive repairs were undertaken on Ollie, Spehar, Springfield and Soda Creek bridges.

Ferries

The reaction ferry at Marguerite was in operation from April 2, 1984 to November 1, 1984. The aerial cage was used during the winter months.

DAWSON CREEK DISTRICT

Roads

Maintenance: A warm dry 1983/84 winter was followed by an early spring. These conditions allowed frost to dissipate early, softening subgrades and causing rutting on gravel and dirt roads. A dry April, however, allowed rapid repair of spring damage to roads. Frequent rains during May and June caused problems with gravel and earth roads due to slippery and soft grade conditions. July and August were dry allowing for pavement repairs, ditching and grading activities to proceed under optimum conditions. This weather pattern continued through September but it turned very wet by October. Consequently only 80% of summer projects were completed by mid-October. Also muddy road surface conditions continued during October, left all unpaved roads very rough when freeze-up came. This created a problem for snow plows during the entire winter.

On October 16th a drastic weather change took place resulting heavy snowfalls and record cold temperatures. All summer activities ceased completely for the season as Arctic systems continued to dominate the area until mid-February. The last part of February and all of March were warm and dry, allowing for a mixture of winter, as well as summer activities. 20 km of gravelling, 204 km of regravelling and 4.2 km of seal coating were completed on the maintenance program during the 1984/85 period.

Construction: During the 1984/85 season there was very little construction undertaken in the Dawson Creek District on a day labour basis. A capital program by contract through headquarters on Highway 97 in the Pine Pass was 80% completed. The N.E. Coal Development Highway between Chetwynd and Tumbler Ridge was completed, including the placement of 4300 m of new no-post guardrail by District crews. 11.1 km of Schedule II Highway right-of-way fencing was also completed, including brushing and cleanup of the fence lines.

Bridges

The bridge day labour program included replacement of the McRae Bridge with a 2769 mm multiplate culvert, replacement of Doe Creek Bridge with a 1692 mm multiplate culvert. A three metre deck widening of the Flatbed #1 Bridge and replacement of the 10 m long Schoenstein Bridge. All concrete and steel bridges were washed immediately after winter, chemical use was discontinued and all bridges were inspected. The bridge material stock was completely re-organized and the storage area cleaned up.

Ferries

The Clayhurst Ferry operated between February 6, 1984 and January 19, 1985. Very little service interruption was experienced as a standby contract tug was used when the Clayhurst Tug was under repair. Traffic volume, however, was down from previous years.

FORT ST. JOHN DISTRICT

Roads

Maintenance: Steaming of culverts was the major activity during the first month of this year. The many freeze-thaw cycles of the previous winter contributed to many blocked water courses and resultant drainage problems. The spring was dry causing an early demand for dust control. In late May, however, the weather pattern for the balance of the summer and fall was set with large amounts of precipitation falling every two to three weeks. Along with repair of damage from runoff, grading of roads was dramatically affected as all gravel roads required re-grading after each storm. Many roads remained rough throughout the summer due to the many cycles of wet/dry weather. Winter arrived one month early in mid-October, and the very wet fall caused many roads to freeze up in rough condition. Snowfall was light during the winter, and the many freeze-thaw cycles experienced once again did not affect drainage structures as severely as they did the previous year.

Construction: Almost no day labour work was undertaken during the year. The only exceptions being the regular Schedule II fencing and guardrail projects, along with completion of the Fort Nelson River Bridge approaches on the Liard Highway. Completion of the new Fort Nelson River Bridge and the approaches allowed the formal opening of the Liard Highway which took place on June 23 with dignitaries from the Provincial, Federal and Northwest Territories governments officiating.

Bridges

The 430 m Fort Nelson River Bridge was completed early in the year by a crew gathered from around the Region. The Fort St. John bridge crew completed three bridge reconstruction projects during the year; the old wooden Milne Bridge was replaced with three 12.2 m stringer spans founded on steel piling; Babcock Bridge was rebuilt using three 5.8 m stringer spans founded on treated wood pilings; and Neilsen Bridge was rebuilt using four 5.8 m wooden stringer spans founded on treated wooden pilings. In addition, substantial repairs were made to the superstructure of the Hudson Hope suspension bridge.

Buildings

A new salt shed was constructed at the Hudson Hope maintenance establishment.

Ferries

With the completion of the Fort Nelson River Bridge, the ferry is no longer required. The barge therefore was disassembled and moved to the Fort Nelson maintenance establishment.

VANDERHOOF DISTRICT

Roads

Maintenance: Once again winter precipitation was near normal but above average temperatures, created very icy conditions and this required extensive sanding of side roads. This was accomplished with screened pit run sand and crushed aggregate.

During the summer extensive machine brushing was carried out along rights-of-way as part of an ongoing program to control undesirable vegetation. As in past years calcium chloride for dust control was initially applied by the supplier with late summer applications carried out by District staff. In addition, several test sections were chosen and Magnesium Chloride was applied and monitored. Severe dry weather during July led to extensive watering of gravel roads so that they could be graded.

An extensive program of machine patching and crack sealing was undertaken on Highway 16 and Highway 27 in preparation for seal coating. A substantial increase in industrial traffic necessitated a considerable amount of road base repair on several secondary roads.

Construction: A moderate construction program in 1984 resulted in completion of 1.15 km of asphalt surfacing as part of the Fort St. James downtown revitalization plan and 7.29 km of fencing along Schedule II Highways.

Bridges

Forty-five structures received maintenance in the form of washing, deck repair, railing repair, and wheelguard repair.

Major repairs to Nechako Bridge 250 continued during spring load restrictions in 1984 with the remaining two spans having lower laterals, floor beams, diagonals, counterbraces, wheelguards, and railings replaced. In addition, the sidewalk and railings were reconstructed during March, 1985.

Deep Creek Bridge No. 6937 was replaced with one 2400 mm and one 500 mm culvert on new approaches.

Fawcett Bridge No. 7576 was replaced with seven 1.2 m by 9.1 m long concrete box stringers on treated timber end and wing walls.

Mining Roads and Trails

Road maintenance was carried out along the Omineca Mining Road from Nation River Bridge to Moose Valley, a distance of 329 km. Winter maintenance on the Omineca Mining Road to 241 km north of Fort St. James was accomplished with one Ministry four-ton plow truck and, when necessary, one hired grader.

Road maintenance was also performed on the Germansen Lake Road, the major activities being culvert replacement, gravelling and grading. The Germansen Lake Road did not receive any maintenance during the winter.

Bridges

A total of three bridges received minor repairs, mainly deck repairs.

MCBRIDE DISTRICT

Roads

Maintenance: A generally mild winter resulted in normal spring run off conditions. Pavement damage through frost heaving, however, was increased. District crews in conjunction with a patching contract, concentrated on major pavement repairs on sections of Highway 16 and Highway 5. The crack sealing program was once again undertaken on all portions of pavement requiring this type of repair. Further attention was given to those areas requiring continued ditching, brushing, gravelling and calcium chloride application. The District sign maintenance program brought about the completion of all major signing and revisions towards using metal posts. The District guardrail program was completed by placing 320 m of 686 mm no-post guardrail at the North Thompson Bridge.

Construction: Drainage improvements were completed over a five km section of Highway 16 from Grandal Road to Read Road. These works involved the installation of 1377 m of perforated pipe, drainage rock and filter cloth.

A 1.6 km section of Westlund Road was relocated and constructed. Approximately 1800 m^3 of rock was removed from a slope two km north of Avola. This work greatly reduced a rock fall hazard presented to the motoring public. In addition to this work, 4000 m^3 of blasted rock was removed from the Goat River area and placed in stockpile. Additional work carried out in the McBride District involved the repaving of Yellowhead Highway 16 from Lee Road to Tete Jaune Cache (35 km), Dunster Station Road (3.7 km) and McBride Airport.

Bridges

The District bridge maintenance program consisted of deck washing and linseed oiling, rail repairs, deck repairs and painting. New seal joints were installed in eleven bridges. New structures were built at Hargreaves Bridge, using metal bin walls as abutments, and at Lions Creek, using log stringers.

Warm weather and heavy rains resulted in emergency work being carried out at Rockingham Creek and Hargreaves during the month of June. Flood conditions brought large amounts of debris into the area of both structures and this was removed.

Total snowfall was increased, compared to previous winters. Extremely high winds in the McBride area resulted in severe snow drifting conditions. High winds and drifting snow brought about eight traffic advisory warnings in the Blue River area as a result of restricted visibility.

The District overall made gains in Personal and Vehicle Accident Summaries. The District Mechanical Crew completed 108,000 man-hours of work accident free and received a gold award.

WILLIAMS LAKE DISTRICT

Roads

Maintenance: Maintenance activities were routine during spring and summer months with only minor flooding and washouts in the Bluff Lake and the Nemaia Valley areas. Industrial (logging) traffic remained heavy in spite of a generally slow economy, resulting in a continuation of pavement rutting problems. Land development as noted by subdivision activity continued last year's downward trend and was the slowest in many years. Complaints from the public were also much reduced as the theme of restraint was generally accepted and expectations of increased service lessened. Winter started a month early in mid-October with increased demands on sanding and chemical ice control activities. Heavy snowfalls were experienced in the Horsefly and Likely area. The coldest weather in years during late December may have contributed to considerable pavement damage experienced throughout the District.

Construction: Only 1.8 km of construction was completed, a relocation of a portion of Stanchfield Road to eliminate an access problem.

Bridges

Four new bridges were completed. These included a precast concrete stringer span at Kleena Kleene on Highway 20, a small Bailey bridge over Beaver Creek on Nicol Road, another Bailey structure to replace Hammer Bridge in Bella Coola Valley, and a small log stringer span over Kappan Creek, south of Anahim Lake to provide access to a recreation area. In addition, materials were acquired for Beaver Valley Bridge on Likely Road and major repairs were made to Hagensborg, Nygaard and Thorsen 1 Bridges in the Bella Coola Valley.

REGION 5

(D.P. Doyle, P. Eng. Regional Director Highways, Terrace)
Prince Rupert, Terrace, Dease Lake,
Smithers and Burns Lake Districts

PRINCE RUPERT DISTRICT

Roads

Maintenance: Crews throughout the District were kept busy during the summer months patching, brushing and ditching. Heavy snowfalls during the winter months resulted in long hours snowplowing and sanding.

Construction: Paving was completed on the Cassiar Highway 37 between the Nass Bridge and Surprise Creek. The highways camp at Meziadin Lake was also paved.

Heavy snowfall combined with unusual temperature fluctuation resulted in the release of 619 avalanches on Highway 37 between Stewart and Meziadin Lake, 162 of which crossed the road. It was observed that avalanche paths that had been dormant for 50 years released during this winter season. The highway was closed for 215 hours because of the dangerous conditions.

Bridges

Redecking was completed on the Chown and Sangan River Bridges. Four new bridges were constructed over the past year at Deltaic, Taft, Ritchie and Hanna Creeks on Highway 37. The old wooden and Bailey bridges had deteriorated to a state which made this construction necessary. Completion of the bridge approaches is slated for this summer.

Ferries

The M.V. Kwuna carried 62,762 cars and 128,125 passengers over the past year.

TERRACE DISTRICT

Roads

Maintenance: A mild winter and below average snowfall accumulation kept the District free from major avalanche activity along Highway 16. Except for two significant snow storms in February, maintenance crews were kept busy controlling icy conditions resulting from the mild weather.

Summer maintenance was dominated by extensive programs in ditch cleaning, brushing, and pavement maintenance.

Construction: Reconstruction, in preparation for paving, of the remaining six kilometre section of Kalum Lake Road was completed in July. The paving of Kalum Lake Road from Highway 16 to Cedar River (52 km) was completed in October.

Road access to the Greenville Village was accomplished by construction of a nine km section of road from the William David McKay Bridge west through Lachkalstap Indian Reserve.

Bridges

Annual bridge maintenance was carried out and completed early in the fiscal year, at which time the emphasize was shifted to bridge construction.

Construction of two Bailey bridges over Diskangieq and Greenville Creeks was accomplished to complete the road link-up to Greenville Village.

Goat Creek Bridge on the Kalum Lake Road was completed.

Construction of a Bailey bridge to replace a log stringer bridge at Wesach Creek on the Kalum Lake Road was finished in November.

Ferries

Upgrading and alterations to improve the safety features of the Usk aerial Ferry and reaction Ferry were carried out in 1984/85.

DEASE LAKE DISTRICT

Roads

Maintenance: After the District passed through the last remnants of winter, effort was made to correct the more annoying frost heaves and weak road base. Drainage was improved in the Dease Lake, Gnat Pass and Iskut sections by a fairly extensive ditching and culvert replacement program.

Winter maintenance, especially at Bob Quinn and Good Hope kept the crews busy plowing and sanding throughout the winter months.

Construction: Graded aggregate sealing of the Blue River – Yukon Border section of Highway 37 and seven km of the Cassiar Access was completed. This necessitated the preparation and reshaping of the road surface by District forces: also sections of badly broken pavement were patched. Improvements were made to the Glenora and Telegraph Creek Roads and a concentrated effort was made in regravelling portions of the Highway in the Bob Quinn and Tatogga Lake areas.

Bridges

Besides regular bridge maintenance, the Tuya River and Rescue Creek Bridges had their decks completely replaced.

Six Mile Bridge, on the Glenora Road, was rebuilt with a longer and higher structure which should solve the problem of flooding during summer run off.

An interesting project was the relocation of the Tahltan Bridge. This became necessary because of the poor condition of the abutments. New abutments were constructed immediately downstream out of bin wall with concrete bearing pads. Then the glu-lam girders were lifted as one unit and set in place. All work was finished before freeze-up except for one wing wall, and this will be done this spring.

SMITHERS DISTRICT

Roads

Maintenance: Once again, a major emphasis was placed on crack sealing and patching on Highway 16. Major machine patches were installed near Moricetown, Boulder East Creek, Seeley Lake and Andimaul Rock Quarry, which were areas hardest hit by spring breakup.

Over 136 km of roads within Smithers District received dust control in 1984. The relocation project between Cranberry River 1 Bridge and Derrick Creek on Highway 37 was also completed in 1984. Highway 37 is now completely paved within Smithers District.

A major ditching and gravelling program was carried out on Morden and Cox Roads east of Telkwa. Also, crushed gravel was produced in Swan Pit north of Hazelton in preparation for road relocation and gravelling.

The rest area maintenance and garbage disposal was contracted out this year, and this resulted in considerable savings with continued good service to the public.

District crews also effected repairs to the Forestry Point road slide at Smithers Landing and relocated a small portion of the Hazelton Kitwanga back road. This was in order to get away from an undermined bank of the Skeena River.

Trucking activities were higher than normal through the winter months. Unsettled weather and many freeze thaw cycles produced a higher frequency of icing conditions. Overall, sand salt usage was up as well.

An access from the Smithers Arterial to the adjacent frontage road at the Florence Motel was removed and relocated to the Manitoba Street Intersection.

About two km of new fence was constructed along Highway 16 and about one km more in materials was issued to farmers and ranchers for replacement purposes. Also, improvements were made to the rest area located at Moonlit Creek on Highway 37.

Smithers District was hit by high winds on April 15, 1984. Hardest hit was the Telkwa area in which some local roads were blocked by fallen trees and power lines. District crews were quick to respond and most roads were cleared within 24 hours.

Minor flooding occurred at Quick on Christmas and Boxing Days when ice jammed in the Bulkley River. For public safety the Quick Station Road was closed until the water subsided. At one point the pack ice was within four feet of the bottom cord of the Quick Bridge.

Buildings

The District Bridge Crew dismantled the Salt Shed in the Kitwanga Yard and relocated it to Price Creek Pit. A loader storage shed was added at the same time.

Bridges

The bridge crew was quite active in 1984, and carried out the following major bridge repairs:

Kispiox Bridge 446 - new piles were driven under the west truss. New caps were installed at the center pier and on the left bank abutment.

Seventeen Mile 7697 - new concrete abutments.

Old Cranberry River 2, Bridge 8408 - 100 foot D.S.C.R. Acrow Bailey removed and shipped to Terrace.

Haguelagate 179 - Grid deck system was rewelded.

Foss Bridge 7704 - brow logs and needle beam added.

Harvey 7702 - Effective span length reduced by installing concrete pedestals and timber frame bents.

Tenas 7031 - A timber and log bent added at mid-span.

Other bridges were thoroughly washed and inspected and minor repairs were effected as necessary.

A concrete deck overlay was installed on the Fulton River Bridge 7018 by District Contract.

BURNS LAKE DISTRICT

Roads

Maintenance: The District started off the year with strong winds causing extensive blow down in the Southbank and Burns Lake areas. District crews worked along with the B.C. Hydro and B.C. Tel crews to establish both access and power to the outlying areas.

Maintenance activities started early in the year concentrating on crack sealing in advance of the planned graded aggregate seal program to be carried out by the headquarters surfacing crews. Two sections of Highway 16, Topley to Broman Lake, and Burns Lake to Tintagel, received graded aggregate seal under the direction of the headquarters surfacing crew.

The machine patching program in the District went very well with utilization of contract placement for hot mix with the District's support crews undertaking the road base repair and the priming and tack coating in advance of the hot mix placement. District maintenance crews undertook replacement of three log/wooden structures at Stearns Creek, Babine Lake and Valley Creek. Stearns Creek installation was accomplished successfully later in the year while still meeting the strict requirements of the Fish and Wildlife Branch with respect to in-stream works and provision of fish passage through the culverts via placement of granular material to simulate stream bed conditions.

The mild wet summer resulted in reduction on the use of sodium lignosulphonate for both dust control and road base stabilization. The District undertook small amount of Schedule II fencing and guardrail installation primarily in those areas requiring upgrading or replacement. The mild winter resulted in a higher degree of freeze thaw cycles requiring more frequent application of chemicals. The low snow cover also kept culvert thawing equipment active during the spring season. A further benefit of the mild winter was the ability of the District crews to undertake some light duty right-of-way clearing and dressing in preparation for seeding for the 85/86 year.

Bridges

The Bridge maintenance program was carried out without incident with the majority of structures receiving the usual inspection, washing, and re-decking attention. Of specific note was work done on the Carroll No. 1, Knockholt, and Buck No. 2 Bridges, all of which received sub-structure repair. The Burns Lake overhead, a headquarters Bridge Branch project, was officially opened to traffic November 16, 1984 allowing for the safe passage of traffic and pedestrians over the CNR tracks in the municipality of Burns Lake.

Ferries

The year started with a change in the hours of operation for the Omineca Princess which provided for a 20 hour per day service to the public. The reduced schedule saw more efficient utilization of the vessel as well as an increased traffic load of approximately 9% from 83/84 to a total of approximately 146,000 vehicles. Several major projects affecting the operation of the ferry were undertaken this year, the principle being the new bubble system installed at the Northbank terminal, the structural, mechanical repair and painting of the drydock as well as the repair and painting of the Bailey uniflote work barge.

All were successfully undertaken under contract with minor service interruptions to the sailing schedule of the Omineca Princess. The Bridge crew undertook the usual terminal maintenance along with the assembly and launching of the drydock for the upcoming refit of the Omineca Princess.

Buildings

The year saw only minor changes in buildings with the mechanic foreman in Burns Lake receiving a new office and the Southbank road crew receiving a loader shed in Barker's Meadow Pit allowing for a more efficient winter sanding operation.

REGION 6

(R.W. Gittens, P. Eng., Regional Director Highways, Nanaimo)
Nanaimo, Saanich, Port Alberni and
Courtenay Districts

NANAIMO DISTRICT

Roads

Maintenance: The district maintenance program was completed according to plan. All foremen areas achieved excellent results utilizing the scheduling program. An excellent seal coating program was completed restoring a number of roads amounting to nine km.

The snow conditions were more severe than in recent years but were dealt with successfully.

In the early spring of 1985 the District was able to recap pave one km of Yellow Point Road, also 0.50 km on Tzouhalem Road, together with 1.10 km on Telegraph Road, and a considerable number of short asphalt overlays to correct deteriorated conditions.

The new pedestrian underpass was completed under the Island Highway at Northfield Road. Guardrail, lighting and landscaping were added to complete the project.

A widening and channelization was provided at the junction of Canada Avenue and Truck Road, Duncan, and signal revision.

A new rest area was constructed on the Cowichan Valley Highway and landscape improvements on the Trans Canada Highway south of Nanaimo.

Upgrading was provided on a number of feeder routes with special reference to providing walking shoulder widths where traffic demanded.

Bridges

The Abernathy Bridge B2761 was reconstructed utilizing steel beams and treated timber. A general bridge maintenance program was completed including re-decking, timber repairs, painting etc. Harvey Bridge B2763 was replaced with a 1.8 m culvert and Edam Bridge replaced with twin 1.2 m x 1.8 m arch pipes, both rush projects to carry logging traffic.

SAANICH DISTRICT

Roads

Maintenance: The district successfully completed the maintenance program as planned providing an increased level of service to the public. Due to the present economic situation a conscious effort is being made to effect efficiencies in all areas. Similar to previous years, emphasis was placed on a road surface treatment program. A total of 70 km of gravel and deteriorated pavement was sealcoated to alleviate future maintenance costs and improve the travelled surface for motorists. The importance of drainage facility maintenance was also highlighted in all areas. In addition to the regular brushing program, the district is now convinced the use of a high tree service to completely open the road surface to the elements is beneficial for drying effect.

During late December and early January there were record snowfalls in the Victoria area and, although there were minor inconveniences, district crews were able to keep the road system open at all times.

Subdivision activity was moderate compared to the peak activity period of 1981-82. However, there has been a marked increase in recent months.

During the past year, two Capital Regional District electoral areas have voted in favour of incorporation. This will reduce the District's manpower, equipment and material requirements by approximately 20% at the end of the transition period, shifting responsibility to the municipalities.

Construction: The capital program was relatively small this fiscal year with the completion of only four projects. The Kirby Creek Bridge approaches were completed; upgrading and paving of Kelly Road to accommodate increased traffic; minor guardrail installations; and the closure of Wilkinson Road at the intersection of Trans Canada Highway.

Bridges

The bridge maintenance program was considered routine without unusual damage to any structures. Upon completion of the McKenzie Avenue extension the bridge inventory was increased with Interurban overpass and Swan Creek bridge.

The maintenance program included redecking, timber repair, guardrail installation, painting, etc. We have also applied an asphaltic sealcoat wearing surface on the bridge decks to provide traction and act as a sealant.

Both Finlayson Creek and Delmar bridges were completely replaced using treated timber piling, steel stringers and timber deck system.

PORT ALBERNI DISTRICT

Roads

Maintenance: Gravelling, brushing, dust suppression and pavement repairs continued to be the dominant maintenance activities undertaken within the District. A total of 25,068 m^3 of aggregates were placed and 906 m^3 of asphalt placed during patching operations. Calcium Chloride and lignosulphonate were applied to 173 km of gravel road.

For the first time in a number of years a significant increase in snowfall was experienced, especially in Sutton Pass area on the Alberni–Tofino Highway 4, where 749 cm of snow was recorded. The Alberni–Parksville section accumulated 360 cm of snowfall which is equal to the 83–84 recorded snowfall at Sutton Pass.

Subdivision activity was considerably reduced, with only 8.3 km of new roads being taken over.

Construction: Day Labour consisted of preparation and paving of seven District roads for a total of 7.2 km. Bamfield road was gravelled for 4.0 km.

Bridges

Port Albion Bridge in the Ucluelet area was rebuilt with assistance from Dock District. Wally and Brayden Bridges located on Highway 4 West had the log stringers and decks replaced.

COURTENAY DISTRICT

Roads

Maintenance: During the year emphasis continued on major ditching, machine brushing and pavement repairs as well as normal maintenance. The winter brought considerable snowfall compared to the previous couple of years with the main concentration of snow falling in November and December. January was mild, however no flooding or winter damage occurred. The year concluded with a small paving program in March in the Courtenay, Campbell River and Port Hardy foreman areas.

Construction: April, 1984 saw the completion of the widening of Highway 19 north of Courtenay, which commenced the previous year, with the paving contract being completed in June. The approaches to the Buttle Narrows Bridge on Highway 28 were completed and paved in conjunction with the Bridge Contract. The new crossing was open to traffic in October, 1984.

Bridges

Cleaning, deck and rail repairs were carried out throughout the District as required. In addition the District Bridge crew undertook reconstruction of two of the three spans on the Browns River Bridge and installed replacement steel stringers under the mainspan of the Nelson Bridge. A multi plate culvert was also installed on Malcolm Island replacing the old bridge. The Fifth Street Bridge in downtown Courtenay was resurfaced before being turned over to the City. During the winter of 1984, after completion of the new Buttle Narrows Bridge, the District dismantled the old wooden structure.

Ferries

The Region 6 Ferries District is administered from Courtenay and is responsible for the operation of 13 certified ferries on the following nine routes:

1. Alert Bay–Sointula–Port McNeill – The M.V. Tenaka crosses Johnstone Straight on a triangle run between Alert Bay on Cormorant Island, Sointula on Malcolm Island and Port McNeill on Vancouver Island. During the annual refit on the "Tenaka" the "Tachek" replaces her on the run. During the fiscal year 14,706 leg trips were made carrying 72,586 vehicles and 260,220 passengers.

2. Quadra Island – The M.V. Quadra Queen II operates across Discovery Passage between Quathiaski Cove on Quadra Island and Campbell River on Vancouver Island. In the summer months she is joined by her sister ship the M.V. Tachek to help alleviate the heavy traffic volumes. During the year 15,222 leg trips were made carrying 271,180 vehicles and 706,823 passengers.

3. Cortes Island – The M.V. Nimpkish operates across Sutil Channel between Whaletown on Cortes Island and Heriot Bay on Quadra Island. During the year 4,272 leg trips were made carrying 33,072 vehicles and 71,452 passengers.

4. Comox–Powell River – The M.V. Princess of Vancouver operates between Little River on Vancouver Island and Powell River on the Mainland making four round trips per day. During the year 79,740 vehicles and 228,816 passengers were carried.

5. Texada Island – The M.V. North Island Princess crosses Malaspina Strait between Powell River and Blubber Bay on Texada Island. Replaced by the M.V. Tachek during refit yearly totals include 7,340 leg trips, 80,887 vehicles and 187,837 passengers carried.

6. Denman Island - The M.V. Kahloke, replaced by the M.V. Klitsa during annual refit crosses Baynes Sound between Buckley Bay on Vancouver Island and Denman Island. During the year 14,758 leg trips were made carrying 197,226 vehicles and 448,237 passengers.

7. Hornby Island - The M.V. Albert J. Savoie crosses Lambert channel from Denman Island to Hornby Island. During the summer months she is replaced by the larger M.V. Klitsa to accommodate the heavy summer traffic. During the year 10,180 leg trips were made and 93,077 vehicles and 217,924 passengers carried.

8. Gabriola Island - The M.V. Quinsam operates between the City of Nanaimo on Vancouver Island and Gabriola Island. During the year 12,933 leg trips were made and 305,242 vehicles and 731,751 passengers were carried.

9. Thetis Island - The M.V. Kulleet operates across Stuart Channel on a triangular run between Chemainus on Vancouver Island, Preedy Harbour on Thetis Island and Kuper Island. During the year 21,438 leg trips were made with a total of 62,261 vehicles and 200,773 passengers were carried.

TRANSPORTATION POLICY

REPORT OF THE DIRECTOR OF TRANSPORT POLICY ANALYSIS

G.A. Clark

The Transport Policy Analysis Branch is responsible for developing policy positions and co-ordinating transportation policy for the Province. In addition, the Branch provides financial assistance for community airports and for certain services provided by the British Columbia Railway. During 1984/85, Branch activity concentrated on railway freight and passenger services, airport development and air services in the Province, motor carrier policy, and port development. Much of this effort involved matters which fall under federal jurisdiction, but have significant implications for British Columbia.

The Province's position on rail passenger services was set out in representations to the federal government, and the Branch participated in the Task Force on re-instatement of rail passenger service between Vancouver and Edmonton, together with VIA Rail, CN, and interested communities along the line. An appeal was launched, asking the Canadian Transport Commission (CTC) to reverse its decision on the minimum fare charged for short-distance travel on the E & N line between Victoria and Courtenay.

The Branch monitored developments under the Western Grain Transportation Act, which eliminated the Crow Rate and triggered about $345,000,000 in railway construction projects in B.C. during 1984. With other provinces, the Branch petitioned the CTC for changes in railway costing as it affects railway rates and subsidies. With the affected carriers in British Columbia, there was a continued effort through the Interstate Commerce Commission and the U.S. Courts to prevent the Burlington-Northern Railway from closing certain routes which are now used by B.C. shippers.

A study of Joint Track Usage in the Fraser Canyon was initiated with Transport Canada, the CTC, CN Rail, CP Rail, Alberta, and Saskatchewan. This project is investigating the possibility that capacity requirements in the Canyon might be met by shared use of CN and CP lines, rather than double-tracking both systems. The Branch also monitored the environmental review of CN's double-tracking program.

Financial assistance was provided to the British Columbia Railway to offset losses on uneconomic services which are maintained in the public interest. A grant of $2,100,000 was provided for losses on the passenger service from North Vancouver to Prince George, together with a further $650,000 for improvements to the passenger cars. Grants totalling $3,300,000 were provided for operation of the Fort Nelson Extension during 1984.

Transportation needs in the Central Coast region were reviewed, and financial assistance was provided to a coastal shipping company in order to maintain service to the region.

In the aviation area, the Ministry made representations to the Canadian Transport Commission and the Minister of Transport on several air carrier licenses and aviation policy issues. This included the replacement of direct service on the Victoria-Seattle route and the addition of new service between Vancouver, Quesnel and Williams Lake. Presentations were also made on the expansion of international air services to British Columbia and on changes to domestic air policy and regulation.

A study of air navigation needs in B.C. was carried out, to identify priorities for upgrading in support of small carriers and low-level flight operations. Consultation with the operators and federal Transport ministry was carried out on this matter and other air navigation issues.

The Branch administers the Air Transport Assistance Program which is a grant-in-aid program designed to promote air transport service by improving community airports and related facilities. Grants totalling $1,800,000 were awarded in 1984-85 for improvements to 11 airports. At year-end there were 49 applications on hand, requesting a total of about $27,000,000 in assistance.

Financial assistance was supplied to the B.C. Aviation Council in support of their programs on flight safety and management of community airports.

AIR TRANSPORT ASSISTANCE PROGRAM
1984/85 Grants

Location	Amount	Project Description
Atlin	$125,000	Relocate portion of Surprise Lake Road and install perimeter fence
Bella Bella	225,000	Construct parking apron for aircraft and extend access road
Cache Creek	457,900	Construct new 1000 m runway, taxiway and parking apron to crushed gravel standard
Elk Valley	313,200	Pave 1200 m runway, taxiway and parking apron
Lillooet	5,000	Grade and seed area outside runway strip with airport boundaries
McBride	219,500	Pave 800 m runway, taxiway and parking apron
Merritt	50,000	Purchase and install equipment and tanks for fuel installation
108 Mile	295,200	Pave 1200 m runway, taxiway and parking apron
Pemberton	125,000	Extend gravel runway to 1200 m and enlarge parking apron
Pender Island	12,500	Construction of helipad for emergency use
Revelstoke	23,200	Asphalt seal coat on access and service road
TOTAL	$1,851,500	

REPORT OF THE DIRECTOR OF ENGINEERING INSPECTION

F. H. Christensen, P. Eng

This Branch is the regulatory authority administering the Railway Act and the Pipeline Act. Responsibilities include processing construction applications, inspecting pipelines, railways, aerial tramways and certifying operating personnel for railways and aerial tramways.

The Branch is represented on several Canadian Standards Association Committees and Sub-Committees including four Pipeline Committees and the Passenger Ropeways Committee, plus the Environment/Resource/Land Use Working Committee of the Energy Project Co-ordinating Committee and the Crossing and Signals Technical Working Committee.

Projects, new procedures or events of an exceptional nature in 1984/85

a) Aerial Tramways

- A review of the existing computerized Aerial Tramway Information System was completed culminating in the introduction of a new stand-alone system.
- Completed a review of the National Standard of Canada - Passenger Ropeways CAN3-Z98-M78 and presented numerous amendment proposals to the Committee Meeting, the majority of which were accepted.
- Staff made safety related slide and lecture presentations to the Doppelmayr Lift Maintenance and Safety Seminar, the Canada West Ski Areas Association Fall Meeting and to the Ski Resort Operation and Management Students at Selkirk College.

b) Railways

- The Automated Light Rapid Transit (A.L.R.T.) system was designated a Railway under the Railway Act pertaining to its operation and maintenance.
- Continued monitoring the construction and operation of the electrified Tumbler Ridge subdivision of B.C. Rail Ltd.
- The relocated trackage of the B.C. Hydro Railway in the Queensborough area was opened for service.
- Relocation of various sections of the B.C. Hydro Railway Central Park Line because of the A.L.R.T. alignment were completed.
- Introduction of a new Accident Notification and Reporting program.

AERIAL TRAMWAY INDUSTRY

Scope of Operation - 96 Areas

Installations	Existing	New	Modified	o/s	Total
Triple Chairlifts	25	1 (moved)			25
Double Chairlifts	45	1		2	46
T-Bars	58	4	2	11	62
Platter Lifts	5				5
Handle Tows	38	1		12	39
Rope Tows	36			20	36
Reversible Tramways (Double)	3		1		3
Reversible Tramways (5 Industrial and 5 River Crossings)	10				10
Gondolas	2	2 under construction			4
TOTAL	221	9	5	43	230

Note: Total installations does not include 43 which appear in our records but have been out of service for the past few years.

Inspections	
Annual Inspections	212
Acceptance Tests for New Installations	7
Modification Inspections	15
Operational Inspections (approximately)	200
Summer Inspections (off season)	22
Construction progress inspections	29

Reported Aerial Tramway Accidents		
1)	Accidents Involving Passengers (Includes passengers being struck by carriers, collisions with other passengers, natural hazards or falling from equipment at loading, unloading or on the line).	17
2)	Accidents Involving Failed Components (Includes failures of safety equipment, drive equipment, spring boxes and power source failure)	21
3)	Accidents Involving Displaced Components (Includes chairlift & T-Bar deropements).	32
4)	Others of Minor Consequence	38
	TOTAL	108
5)	Evacuations of Above Surface Lifts:	
	Standby Drive	13
	Rescue Teams	5
	TOTAL	18
6)	Injury to Passengers:	
	Serious - Doctor	9
	First Aid	7
	Minor	15
	TOTAL	31

ACCIDENTS REPORTED HAVING A POTENTIALLY SERIOUS CONSEQUENCE

- two total haul rope deropements where the rope failed to remain in the ropecatchers and on the bullwheel
- chairlift rollback where the service brake failed to hold the lift, the switch failed to activate the emergency brake and the rollback device did not hold the load
- chairlift deropement caused by a live tree falling on the haul rope which was not retained by the rope catcher resulting in one passenger falling from a chair
- skier caught arm on a chair frame and fell approximately 9 feet at the unloading area
- failure of a diesel auxiliary drive being used for normal operation
- failed return bullwheel shaft caused by a large tree breaking in a wind and falling on the bullwheel
- tower and foundation being pulled out of position by a deroped haul rope which became lodged between a line sheave and the walking beam
- failed rocker arm on a neutral sheave battery
- 60% of rope grips on a chairlift found to be defective during routine summer non-destructive testing

RAILWAY INDUSTRY

Railways under the jurisdiction of the Ministry of Transportation and Highways:

British Columbia Rail
British Columbia Hydro and Power Authority Railway
B.C. Transit (A.L.R.T.)
Byron Creek Collieries Ltd. Railway
B.C. Coal Ltd. Railway
Crowsnest Resources Ltd. Railway
Vancouver Wharves Railway
Northwood Pulp and Timber Ltd. Railway
Canadian Forest Products Railway
Crown Zellerbach Logging Railway
Quintette Coal Ltd. Railway
and some 57 other Industrial Railways, plus 6 Recreational Railways.

SCOPE OF OPERATIONS

Railway Trackage -	
B.C. Rail	2224 km
Yard and Sidings	422 km
B.C. Hydro Railway Mainline	113 km
Yard and Spur	96.5 km
Industrial Railways	413 km
TOTAL	3269 km
Major Rail Yards	17 yards
Motive Power -	
Locomotives	217 units
Other	68 units
TOTAL	285 units
Bulk Storage Facilities	60
Road Crossings -	
Public	429
Industrial	70
Farm	239
Access	285
Signalized	96
Applications and Certifications Processed -	
Track	17
Bridges, Tunnels and Other	17
Road Crossings	27
Automatic Signalizations	1
Bulk Storage Facilities	3
Crossings - Pipe, Wire	24
New Railways	2
Special Approvals - Interchange Agreements, Rules, Tariffs	7
Operating Personnel	59
Accidents Reported and Investigated -	
Common Carriers	201
Industrial Railways	21
New Railways -	
B.C. Transit	21.3 km
Crowsnest Resources Ltd.	4.93 km

PIPELINE INDUSTRY

Present Scope	
Major transmission pipelines	2144 km
Gathering and flow and other transmission lines	7874 km
Compressor and pumping stations	234
Liquid natural gas plants	1
Pump & Compressors removed or relocated	43
Applications Processed	
Pipeline	130
Compressor and Pump Stations	13 (2281 kw)
Crossings	258
Regulator Stations	28
TOTAL	429
Gas	39.6 km
Oil & multiphase	44.7 km
Water	41.8 km
TOTAL	126.1 km
Inspections	
Pipeline field inspections	342
Pump and Compressor Station inspections	122
Pipeline failures reported and investigated (see list)	29
TOTAL	493

PIPELINE FAILURES IN BRITISH COLUMBIA FOR PIPELINES UNDER THE PIPELINE ACT

Date	Company	Location	Commodity	Volume Spilled m^3	Reason
84-04-18	Cdn. Reserve Oil	Kotcho Lake	Salt Water		Internal Corrosion
84-05-08	Esso Resources Ltd	Boundary Lk	Gas		External Corrosion
84-05-09	Inland Natural Gas	Greenwood	Gas		Land Slide
84-05-19	Union Oil	Milligan Creek	Oil	16	External Corrosion
84-06-18	Scurry-Rainbow Oil	Eagle	Oil	0	Hill Slide
84-06-18	I.C.G. Utilities	Ft.St.John	Gas	0	Hill Slide
84-06-27	Petro-Canada	Buick Creek	Gas		External Corrosion
84-07-05	Canterra Energy Ltd	YoYo	Gas		Internal Corrosion
84-08-10	Petro-Canada	Clarke Lake	Gas		External Corrosion
84-08-13	Petro-Canada	Clarke Lake	Gas		External Corrosion
84-08-16	Pac.Northern Gas	Summit-Rupert	Gas		External Corrosion
84-09-19	Union Oil Co.	Peejay	Oil	.5	External Corrosion
84-10-16	Texaco Canada	Boundary Lake	Water		External Corrosion
84-10-31	Petro-Canada	Clarke Lake	Gas		External Corrosion
84-11-10	Union Oil	Peejay	Oil	13.5	Construction Damage
					Overpressure
84-11-07	Petro-Canada	Bubbles	Gas		External Corrosion
84-11-15	Petro-Canada	Dahl	Gas		Construction Damage
84-12-12	Petro-Canada	Clarke Lake	Gas		External Corrosion
84-12-22	Petro-Canada	Clarke Lake	Gas		External Corrosion
85-01-03	Wainoco Oil & Gas	Flatrock	Gas		Gas Fire
85-01-09	Petro-Canada	Beg	Water	.2	Internal Corrosion
85-01-14	Norcen Energy	Taylor	Oil	.2	Hit By Backhoe
85-01-25	Quintana Explor.	Helmet	Gas		Hit By Road Grader
85-02-08	Inland Natural Gas	Dunkley	Gas		Hit By Bulldozer
85-02-24	Petro-Canada	Currant	Oil	25	Overpressure
85-02-25	Petro-Canada	Jedney	Gas		Weld Failure
85-02-25	Wainoco Oil & Gas	Dahl	Gas		Fire
85-03-11	Canterra Energy	Weasel	Water	.3	Internal Corrosion
85-03-15	Petro-Canada	LaPrise	Gas		Hit By Bulldozer

SUMMARY OF FAILURES

Gas Pipeline Failures	19
Oil Pipeline Failures	6
Water Pipeline Failures	4
TOTAL	29
Failures by 3rd Party Damage	4
Failures by Previous Damage to Pipe	3
Failures by Human Error	-
Failures by Internal Corrosion	4
Failures by External Corrosion	12
Failures by Component Failure	-
Failures by Environment Change	3
Failures by Overpressure	1
Failures by Fire, Miscellaneous	2
TOTAL	29

Volume of Oil Spilled - 55.2 m^3

MOTOR CARRIER BRANCH

The activities of this Branch are recorded in the Annual Report of the Motor Carrier Commission published under separate cover.

MOTOR VEHICLE

VEHICLE LICENCE DIVISION

The Vehicle Licence Division is responsible for the licencing and registering of motor vehicles, the issuance of permits, reciprocity agreements, the collection of revenue under the Motor Vehicle Act, Commercial Transport Act, Social Services Tax Act, Insurance (Motor Vehicle) Act, the Motive Fuel Use Tax Act, and the coordination of licence and insurance programs as they affect the Motor Vehicle Department.

The personalized number-plate program continued to receive wide public acceptance during 1983. At December 31, 1984 a total of 21,769 applications had been processed.

The Vehicle Licence Division controls directly the issuing activity of 114 outlets throughout the Province, and indirectly the licencing function conducted through the Insurance Corporation's agency force that consists of approximately 600 offices. The 114 Government related outlets are comprised of 33 motor licence offices, six Government agents and 75 Motor Vehicle Department appointed agents. The 33 motor licence offices are staffed with employees of the Motor Vehicle Department (Ministry of Transportation and Highways) while the government agencies are staffed by employees of the Ministry of Finance, but report to this Division for all motor vehicle issuance.

The Motor Vehicle Department appointed agents are appointed by the Department and consist of credit unions, municipalities and private businesses or individuals. Usually such appointments are made in remote areas of the Province or where the population does not warrant a motor licence office or government agency.

VEHICLE LICENCES

The total number of vehicles licenced to December, 1984 was 1,869,642, a decrease of 482.

Passenger vehicles licenced totalled 1,198,503, an increase of 8,965 or 0.7% more than the 1983 total.

Commercial vehicles licenced totalled 442,352, a decrease of 6,004 or 1.3% less than the 1983 total.

Motorcycles licenced were 33,853, a decrease of 2,866 or 8% less than the 1983 total.

Trailers licenced in 1984 totalled 194,934 of which 33,726 were commercial trailers and 161,208 were utility trailers.

REGISTERED VEHICLES AT DECEMBER 31, 1984

	1983	1984	Increase (Decrease)	%
Passenger Vehicles	1,688,572	1,791,980	103,408	6.12
Motor Homes	44,179	47,015	2,836	6.42
TOTAL PASSENGERS	1,732,751	1,838,995	106,244	6.13
Commercial Vehicles:				
Regular Commercial	612,297	648,967	36,670	5.99
(A) Farm Trucks	30,401	28,300	(2,101)	(6.91)
(F) Farm Tractors	874	832	(42)	(4.81)
(P) Prorate	3,102	3,464	362	11.67
(T) Logging	2,356	2,901	545	23.13
(X) Industrial	10,212	9,736	(476)	(4.66)
TOTAL COMMERCIAL	659,242	694,200	34,958	5.30
Commercial Trailers	50,445	53,297	2,852	5.65
Utility Trailers	290,286	308,881	18,595	6.41
Motorcycles	109,776	120,285	10,509	9.57
TOTAL VEHICLES REGISTERED	2,842,500	3,015,658	173,158	6.09

LICENCED VEHICLES AT DECEMBER 31, 1984

	1983	1984	Increase (Decrease)	%
Passenger Vehicles	1,189,538	1,198,503	8,965	0.75
Commercial Vehicles:				
Regular Commercial	416,823	410,859	(5,964)	(1.43)
(A) Farm Trucks	21,465	21,111	(354)	(1.65)
(F) Farm Tractors	289	243	(46)	(15.92)
(P) Prorate	2,669	2,792	123	4.61
(T) Logging	1,961	2,494	533	27.18
(X) Industrial	5,149	4,853	(296)	(5.75)
TOTAL COMMERCIAL	448,356	442,352	(6,004)	(1.34)
Commercial Trailers	33,522	33,726	204	0.61
Utility Trailers	161,989	161,208	(781)	(0.48)
Motorcycles	36,719	33,853	(2,866)	(7.81)
TOTAL VEHICLES LICENCED	1,870,124	1,869,642	(482)	(.03)

The difference between total licenced vehicles and total registered vehicles is due to the licence with owner concept, e.g., vehicles on dealers' sales lots are not required to be licenced. Some vehicles have been destroyed or removed from the Province but remain registered for six years or until notice is received.

LICENCED VEHICLES DURING 1984

	1983	1984	Increase (Decrease)	%
Passenger Vehicles	1,448,841	1,469,521	20,680	1.43
Commercial Vehicles:				
Regular Commercial	517,443	522,860	5,417	1.05
(A) Farm Trucks	25,180	24,016	(1,164)	(4.62)
(F) Farm Tractors	427	353	(74)	(17.33)
(P) Prorate	2,812	2,956	144	5.12
(T) Logging	2,280	2,777	497	21.80
(X) Industrial	6,592	6,191	(401)	(6.08)
TOTAL COMMERCIAL	554,734	559,153	4,419	0.80
Commercial Trailers	39,798	39,907	109	0.27
Utility Trailers	215,805	216,581	776	0.36
Motorcycles	80,512	81,690	1,178	1.46
TOTAL VEHICLES	2,339,690	2,366,852	27,162	1.16

DISTRIBUTION OF MOTOR VEHICLES

The following table provides information concerning the number of licences issued and their locality. This table cannot be regarded as an accurate population count of vehicles in the various parts of the Province as the owners move frequently from one area to another and vehicles are often sold to new owners residing in different localities than the previous owners. The table does, however, provide an indication of how vehicles are distributed throughout the Province.

MOTOR VEHICLE POPULATION STATISTICS FOR LICENCED VEHICLES AS OF DECEMBER 31, 1984

Name	District Code	Passenger Vehicles	Commercial Vehicles	Utility Trailers	Commercial Trailers	Motorcycles
Abbotsford	190	24,628	7,968	3,061	473	783
Agassiz	036	1,970	1,064	325	42	78
Alaska Highway	510	2,746	3,131	1,007	171	95
Aldergrove	191	8,556	4,124	1,484	301	294
Alvin	514	1	1	0	0	0
Armstrong	085	2,457	1,771	581	101	37
Ashcroft	042	1,557	1,142	400	38	57
Barriere	159	911	1,044	304	73	32
Bella Coola	083	477	679	118	34	10
Blue River	161	109	151	36	10	3
Boston Bar	044	326	262	49	8	25
Bralorne	046	75	115	11	1	6
Burnaby	103	72,047	17,860	4,893	3,928	1,851
Burns Lake	048	1,608	1,832	658	167	44
Campbell River	010	9,429	5,368	2,706	192	377
Cassiar Mines	182	334	365	121	5	20
Castlegar	123	4,592	2,346	977	79	71
Chase	050	2,864	1,974	851	93	52
Chemainus	017	1,799	1,006	433	43	53
Chilliwack	038	19,876	7,861	3,283	465	783
Clinton	052	596	665	193	47	13
Cloverdale	028	32,903	10,379	4,275	878	985
Courtenay	012	14,111	7,126	3,822	159	727
Cowichan	018	1,742	1,096	494	37	53
Cranbrook	125	7,974	5,348	2,022	319	159
Creston	127	3,947	2,822	1,060	174	125
Dawson Creek	167	6,208	5,884	1,636	491	152
Duncan	019	14,003	6,757	2,813	458	428
Elkford	516	2,207	1,731	750	29	72
Enderby	087	1,876	1,542	449	173	25
Fernie	131	4,326	3,339	1,192	220	108
Fort Nelson	181	1,158	1,530	295	180	40
Fort St. James	185	964	1,122	338	102	23
Fort St. John	160	6,174	7,285	2,106	775	156
Ganges	023	2,768	1,319	396	25	143
Golden	133	2,158	1,931	583	119	54
Gold River	016	594	392	240	7	33
Grand Forks	089	2,823	1,760	598	134	61
Greenwood	001	1,032	1,010	238	72	25
Gulf Islands	513	1,567	973	292	15	99
Haney	032	18,813	6,505	2,907	257	612
Hazelton	064	1,043	1,212	252	95	23
Hope	040	2,385	1,531	360	85	86
Houston	056	1,374	1,653	546	155	48
Hudsons Hope	186	1,649	1,818	532	187	39
Invermere	135	2,287	2,134	589	162	57
Kamloops	157	26,511	14,177	5,418	834	615
Kaslo	137	552	444	130	26	15
Kelowna	093	39,408	16,210	7,015	935	854
Keremeos	055	1,337	1,004	300	25	23
Kimberley	139	3,361	2,221	972	50	73
Kitimat	058	3,722	1,975	870	80	74

MOTOR VEHICLE POPULATION STATISTICS FOR LICENCED VEHICLES AS OF DECEMBER 31, 1984 (continued)

Name	District Code	Passenger Vehicles	Commercial Vehicles	Utility Trailers	Commercial Trailers	Motorcycles
Ladysmith	021	3,632	1,822	785	98	131
Lillooet	059	1,078	945	219	58	55
Lytton	061	392	398	81	24	35
McBride	171	518	571	148	47	27
Merritt	063	2,742	2,387	893	138	86
Mission	034	9,919	4,116	1,481	139	336
Nakusp	141	818	881	343	52	37
Nanaimo	006	24,897	10,041	4,682	325	924
Natal	143	0	0	0	0	0
Nelson	150	6,240	2,980	1,147	108	101
New Denver	145	443	322	112	12	3
New Westminster Area	003	67,965	16,055	6,699	2,374	2,118
North Vancouver Island	515	7,008	5,296	1,792	117	359
North & West Vancouver	004	71,713	9,426	4,052	733	1,669
Ocean Falls	183	26	22	4	0	1
Oliver	099	2,884	1,738	599	76	60
100 Mile House	065	3,644	2,396	1,167	212	73
Osoyoos	100	2,125	1,195	402	48	64
Parksville	014	4,367	1,825	1,011	56	133
Penticton	112	16,655	6,832	2,773	301	440
Point Roberts, U.S.A.	512	1,944	1,151	194	33	97
Port Alberni	008	9,515	5,170	2,849	130	361
Powell River	175	6,252	3,479	1,922	157	353
Prince George	067	26,886	18,652	6,671	1,355	473
Prince Rupert	069	4,953	2,411	834	106	125
Princeton	114	1,621	1,382	479	68	47
Qualicum	015	3,252	1,451	752	35	77
Queen Charlotte	520	1,190	1,289	300	27	74
Quesnel	071	6,708	5,796	1,884	432	121
Revelstoke	116	3,063	2,361	872	143	93
Richmond	102	89,506	17,378	7,298	810	2,314
Riondel	147	127	69	33	0	0
Salmo	148	796	532	181	24	20
Salmon Arm	118	6,940	4,548	1,839	367	128
Sechelt	173	6,515	3,277	1,180	70	261
Sidney	025	10,470	2,832	1,416	73	359
Slocan	155	647	508	126	18	13
Smithers	073	3,000	2,711	816	177	86
Sooke	026	3,148	1,564	560	48	108
Squamish	177	3,569	1,852	521	120	175
Surrey	029	70,857	21,408	8,340	1,136	2,075
Terrace	075	5,360	4,196	1,304	213	146
Tofino	180	330	229	84	7	22
Trail	152	8,832	3,680	1,897	168	177
Ucluelet	179	598	478	210	32	42
Vancouver	002	194,058	35,890	6,846	4,832	4,678
Vanderhoof	077	2,794	2,920	969	232	55
Valemount	163	499	610	184	52	21
Vavenby	165	1,289	1,254	473	86	47
Vernon	121	18,063	9,564	3,765	541	379
Victoria	001	103,371	30,764	11,067	1,817	3,446
Wells	079	111	126	31	3	7
Williams Lake	081	6,764	6,770	1,891	526	147
Out/Province	529	416	943	50	1,442	3
Miscellaneous	999	0	0	0	0	0
Total Licenced Vehicles		1,198,503	442,352	161,208	33,726	33,853

COMPARATIVE STATEMENT OF LICENCES, PERMITS, ETC. ISSUED DURING LICENCE YEARS 1975-1984

Licenses Issued	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Motor Vehicles										
Passenger	884,250	911,622	989,119	1,060,345	1,125,654	1,181,147	1,145,369	1,159,554	1,189,538	1,198,503
Commercial	283,198	308,520	353,668	392,336	427,352	449,210	427,179	436,370	448,396	442,352
TOTAL	1,167,448	1,220,142	1,342,787	1,452,681	1,553,006	1,630,357	1,572,548	1,595,924	1,637,894	1,640,895
Motorcycles	19,971	21,148	26,521	31,436	36,860	42,218	44,449	34,185	36,719	33,853
Trailers	161,963	170,090	196,954	198,593	210,619	207,807	192,832	191,587	195,511	194,934
Extra-Provincial Prorated Trucks	8,625	9,343	10,081	10,763	12,725	20,236	-	-	-	-
Extra-Provincial Prorated Trailers	14,658	16,703	17,148	18,021	20,236	36,329	-	-	-	-
C.A.V.R. Cat. A	-	-	-	-	-	-	4,688	5,457	5,987	12,616
C.A.V.R. Cat. B	-	-	-	-	-	-	4,395	5,270	5,287	15,028
Uniform Prorate Agreement Trucks	-	-	-	-	-	-	7,853	11,364		
Uniform Prorate Agreement Trailers	-	-	-	-	-	-	7,216	18,366		
TOTAL OF ALL LICENSED VEHICLES	1,372,865	1,437,326	1,583,491	1,711,494	1,833,446	1,936,947	1,833,981	2,372,217		
Transfer of Ownership										
Passenger Vehicles	338,878	407,056	419,765	523,636	486,234	561,596	421,428	430,259	472,255	479,894
Commercial Vehicles	88,012	122,046	131,157	169,828	170,001	172,253	138,997	144,545	162,752	163,493
Motorcycles	12,214	15,171	20,420	26,270	28,642	31,089	22,017	24,175	26,670	26,684
Trailers	25,890	37,072	39,078	43,626	47,088	48,509	34,693	32,342	37,028	35,692
TOTAL	464,994	581,345	610,420	763,360	731,965	813,447	617,135	631,321	698,705	705,763
Motor Dealers										
Original Licences	1,489	-	-	-	-	-	-	-	-	-
Additional Licences	2,334	-	-	-	-	-	-	-	-	-
Original Motorcycle Dealer Licences	182	-	-	-	-	-	-	-	-	-
Additional Motorcycle Dealer Licences	93	-	-	-	-	-	-	-	-	-

COMPARATIVE STATEMENT OF LICENCES, PERMITS, ETC. ISSUED DURING LICENCE YEARS 1975-1984 (continued)

Licenses Issued	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Demonstration										
Original Licences	-	1,883	2,132	1,898	1,417	10	-	-	-	-
Additional Licences	-	2,194	3,356	4,386	5,203	59	-	-	-	-
New Licences	-	-	-	-	-	1,525	1,221	1,117	1,523	1,501
Renewal Licences	-	-	-	-	-	9,465	6,846	5,306	5,151	5,645
Original Motorcycle Licences	-	168	123	119	102	-	-	-	-	-
Additional Motorcycle Licences	-	49	52	75	88	-	-	-	-	-
New Motorcycle Licences	-	-	-	-	-	75	60	68	61	74
Renewal Motorcycle Licences	-	-	-	-	-	194	144	137	137	127
Transporter										
Original Licences	191	257	305	128	85	74	24	15	31	94
Additional Licences	371	308	208	473	388	122	135	100	113	44
Initial Renewals	-	-	-	-	-	73	69*	49	38	229
Additional Renewals	-	-	-	-	-	444	289*	282	213	44
Manufacturer										
Original Licences	12	20	22	20	19	9	8	14	6	15
Additional Licences	9	8	14	25	29	7	19	1	4	1
Initial Renewals	-	-	-	-	-	16	27	20	39	39
Additional Renewals	-	-	-	-	-	22	29	18	13	10
Trailer Floater										
Original Licences	105	141	370	173	230	4	-	-	-	-
Additional Licences	338	421	212	579	707	9	-	-	-	-
New Licences	-	-	-	-	-	632	562	635	487	780
Renewal Licences	-	-	-	-	-	974	1,162	701	972	1,240
Repairmen										
Original Licences	290	500	586	724	973	414	457	394	402	471
Additional Licences	138	190	261	367	460	143	126	97	88	41
Initial Renewals	-	-	-	-	-	1,197	1,040	980	971	1,146
Additional Renewals	-	-	-	-	-	487	453	342	325	158

COMPARATIVE STATEMENT OF LICENCES, PERMITS, ETC. ISSUED DURING LICENCE YEARS 1975-1984 (continued)

Licenses Issued	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Permits										
NonResident Motor Vehicle Permits	226	69	88	82	89	69	72	68	32	75
NonResident Special Motor Vehicle Permits	-	-	-	-	-	-	-	-	-	-
NonResident Commercial Motor Vehicle Permits										
Single Trip	34,606	28,542	27,903	36,882	47,750	44,395	54,110	36,702	31,802	29,922
Quarterly	4,881	1,067	3,732	3,086	3,575	4,023	7,072	6,804	7,241	9,288
TOTAL	39,487	30,149	31,635	39,918	51,325	48,418	61,182	43,506	39,043	39,210
Temporary Operation Permits										
Passenger	41,558	59,389	57,476	57,107	63,270	52,449	63,423	68,545	61,245	61,849
Commercial	47,674	57,070	55,091	59,669	64,514	54,762	59,724	51,073	55,173	55,952
TOTAL	89,232	116,459	112,567	116,776	127,784	107,211	123,147	119,618	116,418	117,801
Temporary Testing and Demonstration Permits										
Passenger	11,788	46,851	55,419	42,336	44,263	30,825	40,375	38,597	38,913	58,893
Commercial	2,231	8,174	11,256	9,700	11,361	9,412	12,808	15,291	16,283	23,634
TOTAL	14,019	55,025	66,675	52,036	55,624	40,237	53,183	53,888	55,196	82,527
Interim Licence/ Insurance Certificates	14,227	19,379	26,249	32,095	30,584	20,195	18,710	8,998	8,684	9,070
All Terrain Vehicles										
Registration	3,426	2,774	3,048	2,959	2,160	2,232	1,703	1,332	950	803
Substitution	130	115	102	93	87	36	68	62	48	30
Transfer of Ownership	2,559	2,003	1,765	1,625	1,501	828	929	868	721	558
TOTAL	6,115	4,892	4,915	4,677	3,748	3,096	2,700	2,262	1,719	1,391
Air Brake Manuals	14,339	14,899	15,138	16,449	18,369	16,791	20,409	14,976	12,506	14,540

SUMMARY OF REVENUE COLLECTED UNDER THE MOTOR VEHICLE ACT, COMMERCIAL TRANSPORT ACT, ALL TERRAIN VEHICLE ACT, FOR THE PERIOD OF JANUARY 1, 1984 TO DECEMBER 31, 1984

REVENUE SOURCE

	1983 $	1984 $
Revenue collected and reported directly to the Motor Vehicle Department	19,526,328.15	21,454,312.70
Licence Revenue accounted through the Vehicle Licence and Insurance Program by the Insurance Corporation on behalf of the Motor Vehicle Department	99,284,135.00	102,837,359.00
	118,810,463.15	124,291,671.70

Social Service Tax is collected on the sale of vehicles. During 1984 the amount of $28,204,349.17 was collected through the Insurance Corporation of British Columbia and accounted directly to the Ministry of Finance.

MOTOR VEHICLE ACT - REVENUE SOURCE

VEHICLE	1983 $	1984 $
Licence Fees:		
Passenger	40,158,046.00	41,891,591.00
Motorcycles	646,118.00	684,881.00
Utility Trailer	2,004,746.00	2,147,533.00
Demonstration - Vehicles	357,064.00	507,911.00
Demonstration - Motorcycles	7,829.00	13,065.00
Transporter	23,368.00	27,769.00
Manufacturer	4,832.00	4,753.00
Repairman	90,815.00	124,546.00
Vintage	7,464.00	9,953.00
Dealers Interim	43,370.00	45,340.00
Personalized	242,012.00	147,587.00
Sub Total	43,585,664.00	45,604,929.00
General Fees:		
New Plate Fee	986,221.00	1,531,827.00
Notice of Transfer of Ownership	2,114,637.00	3,443,906.00
Duplicate Certificates	284,255.00	496,256.00
New Vehicle Registration	680,722.00	691,731.00
Decal Replacement-Plate Substitution	159,484.00	283,018.00
Search of Vehicle Records	278,751.00	445,256.51
Vehicle Inspection	1,575,242.00	-
Plate Transfer	216,415.00	382,776.00
F R Filing Fee	18,032.82	18,101.02
Sub Total	6,313,759.82	7,292,871.53
Permit Fees:		
Temporary Operation	302,355.00	309,506.00
Temporary Testing & Demonstration	196,988.00	294,674.00
Sub Total	499,343.00	604,180.00
Other:		
Special Line Charges	-	2,018.40
Suspense (Not Allocated)	247.48	279.52
Suspense (Refunds)	1,301.46	9,044.74
Miscellaneous	66.93	718.86
Exchange Account	11,894.85	18,882.76
Recycling	26,109.34	36,043.18
Sub Total	39,620.06	66,987.46
Total Vehicle Revenue	50,438,386.88	53,568,967.99

MOTOR VEHICLE ACT - REVENUE SOURCE (continued)

DRIVERS	1983 $	1984 $
Licence Fees		
Originals	3,471,014.89	3,824,413.92
Duplicates	267,204.40	392,739.54
Industrial Air Certificates	450.00	350.00
Driving School Licences	4,960.00	5,356.00
Sub Total	3,743,629.29	4,222,858.46
General Fees		
Identification Cards	50,023.00	72,547.00
Air Brake Manuals	13,463.50	28,869.00
Driver Examination Medical Appeals	5,350.00	1,500.00
Driver Examination Fee	798,209.00	1,268,456.00
Driver Licence Assessment	849,169.45	105,644.50
Driver Record Search	15,947.65	21,742.65
Reinstatement Fees	-	641,500.00
Sub Total	1,732,162.60	2,140,259.15
Other		
Driver Licence Overpayments	-	-
Sub Total	-	-
Total Driver Licence Revenue	5,475,791.89	6,363,117.61
Total Motor Vehicle Act	55,914,178.77	59,932,085.60

COMMERCIAL TRANSPORT ACT - REVENUE SOURCE

	1983 $	1984 $
Licence Fees		
Commercial	51,147,675.00	50,196,126.00
Trailers	328,400.00	334,779.00
Trailer Floater	227,336.00	370,764.00
Probate & Reciprocity	2,237,950.68	2,615,819.31
Special Agreement Licences	57,022.00	49,387.00
Sub Total	53,998,383.68	53,566,875.31
General Fees		
New Plate	313,713.00	476,237.00
New Vehicle Registration	193,994.00	192,272.00
Decal Replacement and Plate Substitution	51,626.00	73,989.00
Sub Total	559,333.00	742,498.00
Permit Fees		
Temporary Operation	351,575.00	351,023.78
Temporary Testing & Demonstration	81,530.00	118,287.00
Non Resident Commercial	1,564,189.00	1,606,130.50
Oversize/Overweight & Highway Crossing	2,170,333.05	2,583,568.17
Commercial Trans Trust Account	18,513.00	67,535.00
Sub Total	4,186,140.05	4,725,544.45
Total Commercial Transport Act	58,743,856.73	59,034,917.76

SUMMARY OF REVENUES COLLECTED

	1983 $	1984 $
Motor Vehicle Act	55,914,178.77	59,932,085.60
Commercial Transport Act	58,743,856.73	59,034,917.76
All Terrain Vehicle Act	7,735.00	6,330.00
Motor Carrier Act	1,194.00	1,014.00
Sub Total	114,666,964.50	118,974,347.36
Total	114,666,964.50	118,974,347.36

Other revenues collected by the Motor Vehicle Department in conjunction with the licensing programs on behalf of the Ministry of Finance and the Insurance Corporation of British Columbia

	1983 $	1984 $
Ministry of Finance		
Social Service Tax Act	995,053.12	1,792,168.11
Motive Fuel Use Tax Act	586,462.19	539,910.18
Sub Total	1,581,515.31	2,332,078.29
Insurance Corporation of British Columbia	2,561,983.34	2,985,246.05
Sub Total	2,561,983.34	2,985,246.05
Total Other Revenues	4,143,498.65	5,317,324.34
Total Revenue Collected	118,810,463.15	124,291,671.70

REFUNDS

Legislation provides for the refunding of licence fees where licence plates are surrendered to the Superintendent. A person who was allocated motor vehicle licence plates for use on a vehicle registered in his name can, upon disposal of the vehicle, retain, destroy or attach the number plates to a substitute vehicle, or surrender them to the Superintendent, together with an application for refund of fees.

Refunds for motor vehicle licence plates are granted on the basis of the unexpired portion of the licence-year, but no refund is made of an amount less than $5.00.

On reassignment of the motor vehicle plates to a substitute vehicle, no refund is granted if the combined licence and insurance fee is less than $5.00.

The following summary sets out the amount of money refunded for the 1984 calendar year.

Type of Refund	Number	Amount $
General Refunds		
Motor Vehicle Act		
Passenger	50	21,647.82
Drivers	732	3,496.52
Refund from Suspense	97	627.27
* I.C.B.C. (Mid Term Changes)	2	18,930.00
Search Fees	430	23,088.09
Personalized Number Plates	335	9,445.00
Drivers Licence Assessment Fee	71	2,651.00
Financial Responsibility Filing Fee	61	664.12
Transporter Plates	3	303.00
Motor Vehicle Inspection	37	3,502.00
Transfer of Outstanding Debts Collection on Behalf of ICBC	158	128,432.36
Demo, Repairer, Manufacturer Cancellations	37	948.00
Medical Appeals	24	1,225.00
Prorate - U.S. Exchange	4	26.04
Miscellaneous Revenue	3	773.00
Office Shortage	3	368.96
N.S.F.	1	10.00
N.S.F. Service Charge	2	37.00
I.C.B.C. Cancellations	72	2,076.00
Department of Commercial Transport		
Commercial	118	6,488.00
* I.C.B.C. (Mid Term Changes)	2	18,703.00
Trailer Floater Plates	12	2,098.00
Weigh Scale General Account	7	634.00
Prorate Fees	273	118,144.58
Weigh Scale General Account	20	2,537.14
Weigh Scale Trust Account	62	14,275.50
Total General Refunds	2,609	380,497.40
Relinquishment Refunds		
Motor Vehicle Act		
I.C.B.C. (Cancellations)	25	2,458,038.00
Drivers	72	620.00
Department of Commercial Transport		
Commercial	25	2,183,114.00
Total Relinquishment Refunds	122	4,641,772.00
All Terrain Vehicle Refunds		
All Terrain Vehicle	5	75.00
	5	75.00
TOTAL	2,736	5,022,344.40

* I.C.B.C. (Mid Term Changes) are now combined with Relinquishment Refunds

DRIVER LICENCE DIVISION

The Driver Licence Division is responsible for the examination of an applicant's ability to safely operate a class of motor vehicle, the issuance of drivers' licences and British Columbia Identification Cards, the administration of the driver medical review program, development and administration of the driver improvement program, the compiling and recording of traffic accident reports, maintenance of driver's individual driving records, and the licencing of driver training school operators and instructors.

The Motor Vehicle Department operates motor licence offices in 35 locations throughout the Province, as well as one permanent examination centre. Smaller communities are serviced through travelling driver examination units.

The issuance of drivers' licences is undertaken by government agencies, and motor licence issuing offices and by agents appointed by the Superintendent.

Original driver licences issued during the calendar year totalled 76,132, an increase of 2,620 or 4% from 73,512 issued in 1983.

British Columbia identification cards issued during 1984 totalled 15,415, a decrease of 11% over 17,412 processed in 1983.

The number of licenced drivers in British Columbia as of December 31, 1984 was 2,244,304, an increase of 85,565 or 4% over the previous year. There were 1,267,103 male drivers and 977,201 female drivers.

DRIVING OFFENCES

The reporting of driving offences under the Criminal Code (Canada), Motor Vehicle Act and Motor Vehicle Act Regulations, continues to supply information for inclusion in the individual driving records of each driver in this Province. Access to these records is available by means of the driver's licence number or by the name of the driver. It is the responsibility of the Driver Licence Division to retain these records and to utilize the information in their assessment of driver records.

OFFENCES COMMITTED UNDER THE CRIMINAL CODE - ALL DRIVERS (INCLUDING JUVENILES), 1981 - 1984

Offences	1981	1982	1983	1984
Under Criminal Code (Canada)				
Causing death by criminal negligence, sec. 203	8	7	8	11
Causing injury by criminal negligence, sec. 204	4	2	3	5
Manslaughter, sec. 219	0	0	0	0
Criminal negligence, sec. 233 (1)	39	57	46	36
Failing to fulfill duty of person having care, charge or control of vehicle involved in accident, sec. 233 (2)	649	560	374	312
Dangerous driving, sec. 233 (4)	698	618	547	456
Driving while ability impaired, sec. 234	7,342	7,181	6,772	6,407
Breath sample not provided, sec. 235	1,997	2,111	1,948	1,745
Driving with more than 80 milligrams of alcohol in blood, sec. 236	10,193	9,684	8,453	9,025
Operating motor vehicle while driver's licence under prohibition, sec. 238	261	5	0	1
(Legislation declared ultravires on February 4, 1981)				
TOTAL	21,191	20,225	18,151	17,998

OFFENCES COMMITTED UNDER THE MOTOR VEHICLE ACT - ALL DRIVERS (INCLUDING JUVENILES), 1981 - 1984

	Offences	1981	1982	1983	1984
Under Motor Vehicle Act					
	Driving without a licence, sec. 23 (1), 23 (2)	6,332	7,715	10,205	10,774
	Driving without subsisting Motor Vehicle Liability policy, sec. 23 (3)	5,663	6,452	6,628	6,016
	Failing to obey restriction on driver's licence, sec. 24 (7), 24 (8)	1,655	2,129	2,024	1,778
	Driving without having a driver's licence & liability card in possession at time, sec. 30 (1)	19,679	22,864	31,313	28,769
	Driving when right to obtain licence is suspended, sec. 31 (3)	10	3	0	0
	Failing to fulfill duty of driver involved in accident, sec. 62	1,236	1,298	1,383	1,106
	Using licence belonging to another; refusing to show licence, sec. 64	1,471	1,380	963	596
*	Failing to comply with instruction of peace officer, sec. 67	-	79	274	276
	Driving while prohibited or suspended, sec. 86D7, 88, 92 (9), 94	467	1,048	1,626	975
**	Failing to stop for peace officer, sec. 92/1	-	11	150	159
****	Undue Care - Construction and Maintenance vehicles, sec. 117	-	-	-	0
	Disobeying a peace officer, sec. 119	62	83	62	53
	Failing to obey instructions of traffic control signal, sec. 130, 132, 133, 134, 135, 136, 139, 163	55,911	66,775	69,549	75,187
	Failing to obey special signs "re" highway construction, sec. 145, 146, 148	2,084	703	621	1,120
	Driving without due care and attention, sec. 149 (A)	9,787	7,170	7,121	6,353
	Driving without reasonable consideration for other persons using the highway, sec. 149 (B)	2,878	2,488	2,269	2,004
	Driving too fast for road or weather conditions, sec. 149 (C)	4,316	3,806	3,479	3,771
	Driving too slowly, sec. 150	150	126	139	152
	Speeding, sec. 151	281,850	312,502	329,168	320,163
	Speeding in playground or school zone, sec. 152	18,017	25,705	36,257	32,482
	Failing to stop on meeting or overtaking school bus, sec. 153	344	383	325	306
	Failing to drive on the right, sec. 154	1,735	1,572	1,702	1,614
	Infractions of "lane" driving, sec. 155, 156, 157	8,732	8,282	7,901	7,525
	Infractions of "passing", sec. 159, 160, 161, 162, 165	3,791	3,685	3,292	4,097
	Following too close, sec. 164	4,753	3,822	4,236	4,026
	Infractions of turning, starting, & directional signals, sec. 166, 167, 189, 169, 170, 170/A, 171-174	5,638	6,385	6,130	7,620
	Failing to yield right-of-way, sec. 175, 176, 177, 178, 179	7,639	6,378	6,707	6,990
	Not exercising due care "re" pedestrians, sec. 181, 183	2,400	2,334	2,496	3,218

* These statistics not recorded before 1982

** New section as of September 1, 1982

**** These statistics not recorded before 1984

NOTE: 1981 totals represent only licenced B.C. drivers

OFFENCES COMMITTED UNDER THE MOTOR VEHICLE ACT - ALL DRIVERS (INCLUDING JUVENILES), 1981 - 1984 (continued)

	Offences	1981	1982	1983	1984
	Under Motor Vehicle Act (continued)				
	Failing to stop at railway crossing, sec. 186	408	435	391	431
	Failing to stop properly at stop sign, sec. 187	19,176	22,933	23,425	22,133
	Leaving vehicle improperly parked, sec. 192	19	4	860	1,020
	Backing vehicle illegally, sec. 194	2,739	2,371	2,590	2,568
	Improper seating in motorcycle, sec. 195	10	21	21	14
	Failing to comply with requirements before moving vehicle, sec. 196	75	92	110	111
*	Improper control or operation of vehicle in canyon or defile or mountain road, sec. 197	-	7	1	1
	Coasting down grade illegally, sec. 198	5	5	6	10
	Failing to observe fire vehicle safety, sec. 199, 200	30	28	21	17
	Driving over sidewalk, walkway or boulevard, sec. 201	217	224	234	178
	Opening door when unsafe, sec. 204	42	49	68	72
	Illegal depositing of articles on highway, sec. 205	192	170	171	157
*	Operating motor vehicle with less than minimum clearance, sec. 206	-	1	85	70
*	Operating motor vehicle with television set in illegal position, sec. 207	-	0	2	1
*	Operating motor vehicle without required emergency warning devices, sec. 209	-	0	221	347
*	Operating an improperly equipped motor vehicle, sec. 216	-	0	3,827	5,025
	Failing to wear seat belt assembly, sec. 217	18,210	36,596	62,393	53,572
	Riding motorcycle without safety helmet, sec. 218	809	709	732	776
***	Driving with more than 80 mg of alcohol in blood, sec. 220.1	-	-	1	62
***	Refusal to give blood sample, sec. 220.3	-	-	0	10

* Sec. 164 was included with secs. 159, 160, 161, 162 and 165 for the year 1980.

*** These statistics not recorded before 1982.

NOTE: 1981 totals represent only licences B.C. drivers.

OFFENCES COMMITTED UNDER THE MOTOR VEHICLE ACT - ALL DRIVERS (INCLUDING JUVENILES), 1981 - 1984 (continued)

Offences	1981	1982	1983	1984
Under Motor Vehicle Act (continued)				
Registration and licence, sec. 3	-	87	178	252
Number plate offence, sec. 12	-	5,554	7,453	7,679
Change of address and/or name of motor vehicle, sec. 13	-	124	257	238
Transfer of motor vehicle, sec. 16	-	60	96	128
Registration of foreign motor vehicles and trailers, sec. 20	-	153	128	195
Learner not accompanied by adult, sec. 24 (6)	-	54	71	59
Change of address and/or name of driver, sec. 27	-	1,147	1,825	1,705
Exemption of non-resident drivers, sec. 31	-	130	67	112
Municipal chauffeurs permit, sec. 32	-	56	16	29
Parking prohibited, sec. 188	-	237	268	251
Vehicle stopping prohibited/manner of parking, sec. 190, 191	-	1,808	2,770	1,894
Pedestrian wrongdoing, sec. 181 (2)	-	18	10	29
Rights and Duty of cyclist, sec. 185	-	236	419	1,130
Evidence of weight of vehicle or load, sec. 212	-	14	2	5
Repairmans licence, sec. 42	-	7	8	12
Dealer plates, sec. 44	-	10	17	18
Accident reported in 24 hours or 48 hours, sec. 61	-	146	141	69
Misuse of number plates, sec. 63	-	83	104	103
Use of another's licence or permit/failure to permit inspection, sec. 64 (A), 64 (B)	-	111	17	-
Production of motor vehicle licence, sec. 65	-	1,632	1,814	1,876
Alteration of plates/driver's licence, sec. 68	-	84	250	123
Liability of owner for violation of Act, sec. 76	-	443	471	1,483
Allowing unlicensed minor to drive, sec. 78	-	58	100	67
TOTAL	487,151	570,993	648,109	631,157

OFFENCES COMMITTED UNDER THE MOTOR VEHICLE ACT REGULATIONS - ALL DRIVERS (INCLUDING JUVENILES), 1981 - 1984

	Offences	1981	1982	1983	1984
Under Motor Vehicle Act Regulations					
	Loud and unnecessary noise from motor vehicle, Division 7A:01	4,417	3,318	3,065	2,929
*	Display/use of number plates, sec. 3.01 - 3.12	-	3,909	4,808	6,108
*	Lamps, sec. 4.01-4.3	-	6,742	10,473	14,358
*	Brakes, sec. 5.01-5.09	-	675	953	1,204
*	Brake regulations, sec. 6.01-6.13	-	1,043	1,249	2,094
*	Other equipment, sec. 7.01-7.14	-	3,887	5,858	6,340
*	Bald tires, sec. 7.161 (1) - 7.161 (4)	-	4,040	6,139	6,617
*	Slow moving vehicles, sec. 78.01-78.04	-	67	66	87
*	Equipment kept for sale, sec. 8.01-8.04	-	4	19	51
*	Temporary operator permits, sec. 14.01-14.05	-	98	72	131
*	Parking violation, sec. 18.01	-	108	186	118
*	Oversize/escaping load/studded tires, sec. 19.02-19.05	-	1,588	1,902	1,850
*	Operating without permit, sec. 24.01	-	11	13	11
*	No valid inspection sticker, sec. 25.02	-	9,059	12,732	-
**	Invalid licence class, sec. 30.03	-	-	13	9
*	Insecure load, sec. 35.01-35.13	-	796	1,232	1,482
	TOTAL	4,417	35,318	48,779	43,389

* These statistics not recorded before 1982.

** These statistics not recorded before 1983.

NOTE:1981 totals represent only licenced B.C. drivers.

OFFENCES COMMITTED UNDER THE MOTOR VEHICLE ACT - JUVENILES ONLY, 1981 - 1984

	Offences	1981	1982	1983	1984
Under	Motor Vehicle Act				
	Driving without a licence, sec. 23 (1), 23 (2)	29	57	66	137
	Driving without subsisting Motor Vehicle Liability policy, sec. 23 (3)	22	31	56	98
	Failing to obey restriction on driver's licence, sec. 24 (7), 24 (8)	5	22	31	74
	Driving without having a driver's licence & liability card in possession at time, sec. 30 (1)	85	128	207	432
	Driving when right to obtain licence is suspended, sec. 31 (3)	0	0	0	0
	Failing to fulfill duty of driver involved in incident, sec. 62	16	18	36	29
	Using licence belonging to another; refusing to show licence, sec. 64	10	9	2	9
*	Failing to comply with instruction of peace officer, sec. 67	0	4	4	5
	Driving while prohibited or suspended, sec. 86D7, 88, 92 (9), 94	2	2	8	2
**	Failing to stop for peace officer, sec. 92/1	0	0	7	5
****	Undue Care - Construction and Maintenance Vehicles, sec. 117	-	-	-	0
	Disobeying a peace officer, sec. 119	0	1	1	0
	Failing to obey instructions of traffic control signal, sec. 130, 132, 133, 134, 135, 136, 139, 163	358	321	321	530
	Failing to obey special signs "re" highway construction, sec. 145, 146, 148	3	1	1	9
	Driving without due care and attention, sec. 149 (A)	233	166	208	316
	Driving without reasonable consideration for other persons using the highway, sec. 149 (B)	54	53	70	93
	Driving too fast for road or weather conditions, sec. 149 (C)	86	79	112	240
	Driving too slowly, sec. 150	1	2	1	4
	Speeding, sec. 151	2,267	1,950	2,191	3,328
	Speeding in playground or school zone, sec. 152	161	145	219	308
	Failing to stop on meeting or overtaking school bus, sec. 153	8	5	9	10
	Failing to drive on the right, sec. 154	33	16	22	43
	Infractions of "lane" driving, sec. 155, 156, 157	59	50	49	100
	Infractions of "passing", sec. 159, 160, 161, 162, 165	28	21	36	48
	Following too close, sec. 164	53	43	50	102
	Infractions of turning, starting, and directional signals, sec. 166, 167, 168, 169, 170, 170/A, 171-174	49	47	34	73
	Failing to yield right-of-way, sec. 175, 176, 177, 178, 179	103	73	88	148

* These statistics not recorded before 1982.

** New section as of September 1, 1982.

**** These statistics not recorded before 1984

NOTE: 1981 totals represent only licenced B.C. drivers.

OFFENCES COMMITTED UNDER THE MOTOR VEHICLE ACT - JUVENILES ONLY, 1981 - 1984 (continued)

	Offences	1981	1982	1983	1984
	Under Motor Vehicle Act (continued)				
	Not exercising due care "re" pedestrians, sec. 181, 183	22	17	12	27
	Failing to stop at railway crossing, sec. 186	3	2	3	3
	Failing to stop properly at stop sign, sec. 187	221	200	198	314
	Leaving vehicle improperly parked, sec. 192	0	0	0	1
	Backing vehicle illegally, sec. 194	33	32	27	67
	Improper seating in motorcycle, sec. 195	0	0	1	0
	Failing to comply with requirements before moving vehicle, sec. 196	3	2	1	3
*	Improper control or operation of vehicle in canyon or defile or mountain road, sec. 197	-	0	0	0
	Coasting down grade illegally, sec. 198	0	0	0	1
	Failing to observe fire vehicle safety, sec. 199, 200	0	0	0	0
	Driving over sidewalk, walkway or boulevard, sec. 201	1	2	3	9
	Opening door when unsafe, sec. 204	0	0	0	0
	Illegal depositing of articles on highway, sec. 205	0	1	0	5
*	Operating motor vehicle with less than minimum clearance, sec. 206	-	-	0	1
*	Operating motor vehicle with television set in illegal position, sec. 207	-	-	0	0
*	Operating motor vehicle without required emergency warning devices, sec. 209	-	-	0	0
*	Operating an improperly equipped motor vehicle, sec. 216	-	-	2	77
	Failing to wear seat belt assembly, sec. 217	75	110	240	373
	Riding motorcycle without safety helmet, sec. 218	5	5	11	17
***	Driving with more than 80 mg of alcohol in blood, sec. 220/1	-	-	0	1
***	Refusal to give blood sample, sec. 220/3	-	-	0	0
	TOTAL	4,028	3,615	4,384	7,042

* These statistics not recorded before 1982.

*** New section as of October 1, 1983.

NOTE: 1981 totals represent only licenced B.C. drivers.

OFFENCES COMMITTED UNDER THE CRIMINAL CODE - JUVENILES ONLY, 1981 - 1984

Offences	1981	1982	1983	1984
Under Criminal Code (Canada)				
Causing death by criminal negligence, sec. 203	0	0	0	0
Causing injury by criminal negligence, sec. 204	0	0	0	0
Manslaughter, sec. 219	0	0	0	0
Criminal negligence, sec. 233 (1)	0	3	3	0
Failing to fulfill duty of person having care, charge or control of vehicle involved in accident, sec. 233 (2)	5	0	6	3
Dangerous driving, sec. 233 (4)	22	12	20	7
Driving while ability impaired, sec. 234	51	28	48	20
Breath sample not provided, sec. 235	5	3	4	2
Driving with more than 80 milligrams of alcohol in blood, sec. 236	47	27	24	16
Operating motor vehicle while driver's licence under prohibition, sec. 238	1	0	0	0
(Legislation declared ultravires on February 4, 1981)				
TOTAL	131	73	105	48

ANALYSIS OF LICENCED DRIVERS ON FILE FOR 1964
MALE
CLASSIFICATIONS

Age	1	1, 6	2	2, 6	3	3, 4	3, 4, 6	3, 6	4	4, 6	5	5, 6	6	Unknown	Total
Under 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	9,805	287	74	667	10,833
17	0	0	0	0	0	0	0	0	0	0	14,229	799	106	278	15,412
18	3	0	0	0	48	1	0	7	4	0	16,172	1,293	110	187	17,825
19	66	21	7	3	99	4	2	22	140	11	18,174	1,944	104	166	20,763
20	226	73	37	9	177	12	6	43	322	64	20,378	2,665	97	128	24,237
21-25	3,098	1,165	483	203	2,823	292	123	891	4,067	980	112,648	18,454	430	396	146,053
26-30	5,332	2,766	1,105	511	4,564	719	385	1,941	7,038	2,067	115,512	23,688	345	219	166,192
31-35	5,834	2,850	1,773	767	4,980	949	466	1,979	8,169	2,334	111,122	22,967	257	113	164,530
36-40	6,601	1,634	2,015	534	5,016	888	277	1,111	6,777	1,162	105,157	11,908	84	73	143,237
41-45	5,940	1,000	1,670	295	4,159	592	126	576	3,870	448	81,846	5,631	31	33	106,217
46-50	4,755	537	1,255	182	3,746	429	64	360	2,458	208	68,354	3,254	22	40	85,664
51-55	3,867	370	1,126	124	3,329	380	38	225	1,749	124	67,055	2,412	11	32	80,842
56-60	2,436	200	809	80	2,836	221	23	144	1,330	72	62,999	1,757	20	21	72,948
61-65	1,093	50	587	29	1,777	150	4	62	878	39	59,627	1,093	20	15	65,424
66-70	238	13	161	6	623	30	2	16	353	11	51,308	697	10	8	53,476
71-75	26	1	20	2	61	2	1	1	100	1	42,336	300	14	6	42,871
76-80	2	0	4	0	14	0	0	0	15	1	27,778	72	9	3	27,898
81-85	0	0	0	0	1	0	0	0	2	0	14,024	15	8	1	14,051
86-90	0	0	0	0	0	0	0	0	0	0	5,457	3	2	-	5,462
91-95	0	0	0	0	0	0	0	0	0	0	1,881	0	2	0	1,883
96&Over	0	0	0	0	0	0	0	0	0	0	391	0	0	0	391
Unknown	0	0	0	0	0	0	0	0	0	0	300	4	2	558	864
TOTAL	39,517	10,680	11,052	2,745	34,223	4,669	1,517	7,378	37,272	7,522	1,006,553	99,243	1,758	2,974	1,267,103

ANALYSIS OF LICENCED DRIVERS ON FILE FOR 1984
FEMALE
CLASSIFICATIONS

Age	1	1, 6	2	2, 6	3	3, 4	3, 4, 6	3, 6	4	4, 6	5	5, 6	6	Unknown	Total
Under 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	6,253	16	14	587	6,870
17	0	0	0	0	0	0	0	0	0	0	10,856	52	15	328	11,251
18	0	0	0	0	1	0	0	0	0	0	13,228	95	17	241	13,582
19	1	0	1	0	1	0	0	0	49	1	15,962	138	22	232	16,407
20	8	1	2	0	1	0	0	1	134	8	18,982	203	17	189	19,546
21-25	118	12	86	12	89	11	3	10	1,467	83	117,981	1,676	73	682	122,323
26-30	190	28	223	27	153	23	4	18	2,194	167	138,071	2,458	66	349	143,971
31-35	160	18	311	26	100	12	1	15	1,882	126	133,899	2,314	54	226	139,144
36-40	111	20	278	29	73	15	2	7	1,229	79	114,764	1,263	20	133	118,023
41-45	84	7	199	13	47	9	0	2	895	31	82,797	649	10	76	84,819
46-50	33	6	162	5	33	4	0	3	532	14	62,853	294	9	54	64,002
51-55	18	2	81	2	31	4	0	2	350	4	55,730	162	6	40	56,432
56-60	10	1	49	1	24	1	0	1	220	4	52,356	105	10	19	52,801
61-65	3	0	34	0	9	1	0	0	116	0	47,998	45	5	23	48,234
66-70	0	0	3	0	1	0	0	0	25	0	36,347	16	0	13	36,405
71-75	0	0	1	0	0	0	0	0	6	0	23,763	10	1	11	23,792
76-80	0	0	0	0	0	0	0	0	0	0	12,117	4	1	1	12,123
81-85	0	0	0	0	0	0	0	0	0	0	4,847	2	1	0	4,850
86-90	0	0	0	0	0	0	0	0	1	0	1,676	0	0	0	1,677
91-95	0	0	0	0	0	0	0	0	0	0	387	0	0	0	387
96&Over	0	0	0	0	0	0	0	0	0	0	35	0	0	0	35
Unknown	0	0	0	0	0	0	0	0	0	0	116	0	1	410	527
TOTAL	736	95	1,430	115	563	80	10	59	9,120	517	951,018	9,502	342	3,614	977,201

ANALYSIS OF LICENCED DRIVERS ON FILE FOR 1984
MALE AND FEMALE
CLASSIFICATIONS

Age	1	1, 6	2	2, 6	3	3, 4	3, 4, 6	3, 6	4	4, 6	5	5, 6	6	Unknown	Total
Under 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	16,058	303	88	1,254	17,703
17	0	0	0	0	0	0	0	0	0	0	25,085	851	121	606	26,663
18	3	0	0	0	49	1	0	7	4	0	29,400	1,388	127	428	31,407
19	67	21	8	3	100	4	2	22	189	12	34,136	2,082	126	398	37,170
20	234	74	39	9	178	12	6	44	456	72	39,360	2,868	114	317	43,783
21-25	3,216	1,177	569	215	2,912	303	126	901	5,554	1,063	230,629	20,130	503	1,078	268,376
26-30	5,522	2,794	1,328	538	4,717	742	389	1,959	9,232	2,234	253,583	26,146	411	568	310,163
31-35	5,994	2,868	2,084	793	5,050	961	467	1,994	10,051	2,460	245,021	25,281	311	339	303,674
36-40	6,712	1,654	2,293	563	5,089	903	279	1,118	8,006	1,241	219,921	13,171	104	206	261,260
41-45	6,024	1,007	1,869	308	4,206	601	126	578	4,765	479	164,643	6,280	41	109	191,036
46-50	4,788	543	1,417	187	3,779	433	64	363	2,990	222	131,207	3,548	31	94	149,666
51-55	3,885	372	1,207	126	3,360	384	38	227	2,099	128	122,785	2,574	17	72	137,274
56-60	2,446	201	858	81	2,860	222	23	145	1,550	76	115,355	1,862	30	40	125,749
61-65	1,096	50	621	29	1,786	151	4	62	994	39	107,625	1,138	25	38	113,656
66-70	238	13	164	6	624	30	2	16	378	11	87,655	713	10	21	89,881
71-75	26	1	21	2	61	2	1	1	106	1	66,099	310	15	17	66,663
76-80	2	0	4	0	14	0	0	0	15	1	39,895	76	10	4	40,021
81-85	0	0	0	0	1	0	0	0	2	0	18,871	17	9	1	18,901
86-90	0	0	0	0	0	0	0	0	1	0	7,133	3	2	0	7,139
91-95	0	0	0	0	0	0	0	0	0	0	2,268	0	2	0	2,270
96&Over	0	0	0	0	0	0	0	0	0	0	426	0	0	0	426
Unknown	0	0	0	0	0	0	0	0	0	0	416	4	3	988	1,421
TOTAL	40,253	10,775	12,482	2,860	34,786	4,749	1,527	7,437	46,392	8,039	1,957,571	108,745	2,100	6,588	2,244,304

MOTOR VEHICLE TRAFFIC ACCIDENT FREQUENCIES** - 1971 to 1984

Year	Total Vehicles	Number of Accidents	Accidents per 1,000 Vehicles Licenced	Injuries	Deaths	Deaths per 10,000 Vehicles Licenced	Deaths per 100 Million km	Fatal	Fatal Accidents per 100 Million km
1971	1,087,992	59,745	54.9	22,340	636	5.8	4.0	538	3.8
1972	1,164,749	59,996	51.5	23,316	716	6.1	4.3	602	3.6
1973	1,248,422	69,564	56.0	27,709	825	6.7	4.5	698	3.8
1974	1,333,891	84,445	63.3	28,699	844	6.3	4.2	718	3.6
1975	1,349,382	85,601	63.4	25,003	717	5.3	3.5	593	2.9
1976	1,411,380	84,158	59.7	25,239	630	4.5	3.0	541	2.6
1977	1,556,262	115,046	73.9	31,942	718	4.6	3.2	617	2.8
1978	1,682,710	112,635	66.9	33,105	640	3.8	2.7	553	2.3
1979	1,800,486	123,863	68.8	37,809	738	4.1	2.9	628	2.5
1980	1,880,382	143,577	76.3	41,500	811	4.3	3.0	710	2.6
1981	1,809,829	127,831*	70.6	44,123	859	4.7	3.2	761	2.9
1982	1,821,696	111,868*	61.4	33,807	601	3.3	2.5	524	2.2
1983	1,870,124	102,065*	54.6	31,855	607	3.2	3.1	522	2.6
1984	1,835,916	98,506*	53.7	32,407	525	2.9	2.7	447	2.3

In 1984 there were 447 fatal accidents in which 525 victims were killed. Also, during this year 32,407 victims were injured in 22,946 casualty accidents.

* The number of accidents in 1981 to 1984 cannot be compared to previous years because the reporting level for property damage only accidents was raised January 1, 1981 from $200.00 to $400.00. This has significantly reduced the number of accidents reported since 1981.

** Reportable accidents are those where the aggregate property damage exceeds $400.00 or a person is injured or killed. During 1977 a new Traffic Accident Reporting system was introduced and as a result, a higher number of accidents were reported. Prior to 1977 accident data was obtained from driver completed forms. The new system now obtains data from forms completed by the police. Due to the significant change in the way reports were submitted, a comparison between data previous to 1977 and data collected after January 1, 1977 should not be attempted.

ACCIDENTS & VICTIMS BY MONTH DURING 1984

	Accidents				Victims		
Month	Fatal	Injury	Property Damage	Total Accidents	Fatal	Injury	Total Victims
January	35	1,497	5,045	6,577	41	2,177	2,218
February	22	1,447	5,635	7,104	27	2,012	2,039
March	33	1,555	5,535	7,123	37	2,224	2,261
April	38	1,609	5,354	7,001	41	2,318	2,359
May	31	1,900	5,858	7,789	33	2,645	2,678
June	51	2,097	5,813	7,961	67	2,958	3,025
July	44	2,224	5,807	8,075	50	3,141	3,191
August	63	2,236	6,035	8,334	77	3,181	3,258
September	34	2,093	6,120	8,247	38	2,914	2,952
October	34	2,071	7,082	9,187	37	2,882	2,919
November	29	2,134	7,773	9,936	33	2,922	2,955
December	33	2,083	9,056	11,172	44	3,033	3,077
TOTALS	447	22,946	75,113	98,506	525	32,407	32,932

MOTOR VEHICLE ACCIDENT FATAL AND INJURY VICTIMS BY AGE - 1984

	Fatal Victims				Injury Victims			
Age	Male	Female	Unknown	Total	Male	Female	Unknown	Total
1	1	1	0	2	49	39	3	91
2	0	3	0	3	46	54	0	100
3	2	0	0	2	72	53	1	126
4	2	1	0	3	69	63	0	132
5	2	0	0	2	92	48	1	141
6-10	11	9	0	20	476	359	0	835
11-15	13	5	0	18	822	786	0	1,608
16	9	3	0	12	550	412	2	964
17	10	4	0	14	720	471	3	1,194
18	14	1	0	15	832	524	2	1,358
19	25	4	0	29	1,013	501	2	1,516
20	16	3	0	19	1,021	509	0	1,530
21-25	56	14	0	70	3,587	2,040	3	5,630
26-30	43	16	0	59	2,283	1,463	1	3,747
31-35	28	8	0	36	1,598	1,117	3	2,718
36-40	25	12	0	37	1,071	909	1	1,981
41-45	15	12	0	27	720	726	1	1,447
46-50	13	9	0	22	641	541	0	1,182
51-55	10	12	0	22	531	511	1	1,043
56-60	9	5	0	14	438	479	1	918
61-65	15	5	0	20	360	418	0	778
66-70	7	5	0	12	251	292	1	544
71-75	8	7	0	15	200	246	0	446
76-80	11	8	0	19	144	147	0	291
81-85	5	2	0	7	52	60	0	112
86-90	2	1	0	3	21	23	0	44
91-95	1	1	0	2	2	4	0	6
96 & Over	0	0	0	0	9	5	2	16
Unknown	13	8	0	21	1,007	675	227	1,909
TOTALS	366	159	0	525	18,677	13,475	255	32,407

These figures represent drivers, passengers, motorcyclists, bicyclists and pedestrians.

TYPE OF SAFETY EQUIPMENT USED BY DRIVERS IN ACCIDENTS - 1984

Safety Equipment	Property Damage	Injury	Fatal	Total	%
Harness & Lap Belt	53,610	9,279	53	62,942	62
Lap Belt Only	13,917	2,458	18	16,393	17
Not Used	4,624	2,225	126	6,975	7
None in Vehicle	1,823	2,124	31	3,978	4
Harness Only	1,178	203	0	1,381	1
Helmet	164	690	14	868	1
Air Bag	20	2	0	22	0
Unknown	7,302	1,149	29	8,480	8
Other	110	45	2	157	0
TOTALS	82,761	18,264	275	101,300	100

TYPE OF SAFETY EQUIPMENT USED BY PASSENGERS IN ACCIDENTS - 1984

Safety Equipment	Property Damage	Injury	Fatal	Total	%
Harness & Lap Belt	18,519	4,156	73	22,748	43
Lap Belt Only	12,140	2,375	26	13,541	28
Not Used	4,220	2,536	193	6,949	13
None in Vehicle	1,468	961	43	2,472	5
Child Restraint	1,191	86	0	1,277	3
Harness Only	493	94	4	591	1
Helmet	44	226	14	284	0
Air Bag	25	6	2	33	0
Unknown	2,887	806	43	3,736	7
Other	83	36	5	124	0
TOTALS	41,082	11,346	407	52,835	100

NUMBER OF VEHICLES INVOLVED IN ACCIDENTS BY VEHICLE TYPE DURING 1984

Vehicle Type	Property Damage Accidents	Injury	Fatal	Total Vehicles	%
Passenger Car	97,762	27,545	357	125,664	71
Car and Trailer	582	157	5	744	1
Single Unit Truck, Light	21,670	5,632	143	27,445	15
* Single Unit Truck, Heavy	1,695	453	28	2,176	2
Light Truck/Trailer	356	87	3	446	0
* Heavy Truck/Trailer	455	109	4	568	0
* Tractor Trailer	1,097	308	37	1,442	1
* Tractor Trailer and Pup	208	88	9	305	0
Logging Truck and Pole Trailer	63	23	0	86	0
School Bus	114	34	2	150	0
Public Bus	338	125	2	465	0
Motorcycle	699	1,963	50	2,712	2
Moped	6	28	1	35	0
Bicycle	370	1,997	17	2,384	1
Camper	1,375	384	4	1,763	1
Camper/Trailer	121	40	1	162	0
Motor Home	464	139	4	607	0
Motor Home/Trailer	125	21	0	146	0
Trailer Only	99	24	1	124	0
All Terrain Vehicles					
Four Wheel Drive	990	224	3	1,217	1
Snowmobile	3	5	1	9	0
Dune Buggy	5	5	0	10	0
Trail Bike	1	10	1	11	0
Mini Bike	0	2	0	2	0
Swamp Buggy	0	2	0	2	0
Farm Vehicles	20	17	2	39	0
Road/General Const. Vehicles	129	21	3	153	0
Special Vehicles	5	2	0	7	0
Unidentified Vehicles	10,137	244	4	10,385	6
TOTAL	139,332	39,770	682	179,784	100

* These vehicles are defined as weighing 10,900 kg or over

MAJOR CONTRIBUTING FACTORS

Contributing factors are those circumstances or events that the attending Police Officer perceives to directly contribute to a traffic accident. The traffic investigation report permits up to three contributing factors or causes to be attributed to each vehicle or driver involved in an accident. These factors are listed in order of importance.

The figures in this set of tables represent only those accidents for which the Police have reported a cause, and with the exception of "alcohol", represent only the first identified contributing factor.

In 1984, 68,261 factors were identified as contributing to 98,506 traffic accidents.

MAJOR CONTRIBUTING FACTORS IN 1984 ACCIDENTS

Contributing Factors	Property Damage Only	Personal Injury	Fatal	Total	Percent of Total
Human Action	30,048	13,243	189	43,480	64
Environmental Condition	8,989	2,759	53	11,801	17
Human Condition	6,329	4,561	225	11,115	16
Vehicle Condition	1,269	591	5	1,865	3
TOTAL	46,635	21,154	472	68,261	100

ACCIDENTS WHERE HUMAN CONDITION WAS THE MAJOR CONTRIBUTING FACTOR

Human Factors	Property Damage Only	Personal Injury	Fatal	Total	Percent of Total
Alcohol	4,438	3,441	199	8,078	73
Driver Inexperience	1,477	687	9	2,173	20
Fell Asleep	183	204	3	390	3
Fatigue	94	65	4	163	2
Unconscious	36	63	1	100	1
Illness	40	43	5	88	1
Illegal Drugs	20	18	1	39	0
Physical Disability	23	14	1	38	0
Medication (Legal Drugs)	16	16	0	32	0
Suicide Attempts	2	10	2	14	0
TOTAL	6,329	4,561	225	11,115	100

ACCIDENTS WHERE HUMAN ACTION WAS THE MAJOR CONTRIBUTING FACTOR

Human Action Factors	Property Damage Only	Personal Injury	Fatal	Total	Percent of Total
Driving Without Due Care	8,286	4,429	61	12,776	29
Failing to Yield Right of Way	6,153	3,222	18	9,393	21
Backing Unsafely	4,910	232	3	5,145	12
Driving at Unsafe Speed	2,789	1,472	45	4,306	10
Following Too Closely	2,619	1,395	0	4,014	9
Ignoring Traffic Device	1,191	908	7	2,106	5
Improper Turning	1,294	360	5	1,659	4
Cutting In	950	208	0	1,158	3
Improper Passing	682	235	6	923	2
Driving on Wrong Side	490	342	25	857	2
No Driver	461	39	0	500	1
Pedestrian Error/Confusion	31	328	19	378	1
Failing to Signal	181	72	0	253	1
Failing to Stop for Peace Officer	11	1	0	12	0
TOTAL	30,048	13,243	189	43,480	100

ACCIDENTS WHERE ENVIRONMENTAL CONDITION WAS THE MAJOR CONTRIBUTING FACTOR

Environmental Factors	Property Damage Only	Personal Injury	Fatal	Total	Percent of Total
Weather Condition	4,595	1,524	36	6,155	52
Wild Animal	1,929	234	0	2,163	18
Visibility Impaired	763	342	3	1,108	9
Domestic Animal	457	144	3	604	5
Obstruction/Debris	387	158	3	548	5
Construction	436	108	1	545	5
(Result of) Directly Preceding Accident	153	106	5	264	2
Pavement in Poor Condition	102	46	0	148	1
Sunlight Glare	116	66	1	183	2
Artificial Glare	39	22	1	62	1
Sign Obstruction	12	9	0	21	0
TOTAL	8,989	2,759	53	11,801	100

ACCIDENTS WHERE VEHICLE CONDITION WAS THE MAJOR CONTRIBUTING FACTOR

Vehicle Defect	Property Damage Only	Personal Injury	Fatal	Total	Percent of Total
Brakes	409	185	1	595	32
Tires	276	108	3	387	21
Steering	108	67	0	175	9
Headlights	58	90	0	148	8
Engine	93	27	1	121	6
Accelerator	56	28	0	84	5
Brake Lights	46	30	0	76	4
Tow Hitch	63	11	0	74	4
Turn Signals	54	18	0	72	4
Oversize Vehicle	53	2	0	55	3
Suspension	26	14	0	40	2
Modified Vehicle	12	6	0	18	1
Restraint System	13	3	0	16	1
Windshield	2	2	0	4	0
TOTAL	1,269	591	5	1,865	100

1984 Traffic Accidents by Police Jurisdictions - Kelowna Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Armstrong	154	5	3.25	38	24.68	111	72.08	7	61
Enderby	144	3	2.08	45	31.25	96	66.67	3	66
Falkland	85	3	3.53	25	29.41	57	67.06	5	49
Kelowna (Rural)	632	7	1.11	186	29.43	439	69.46	7	274
Kelowna (Municipal)	1,700	6	0.35	478	28.12	1,216	71.53	6	645
Keremeos	145	0	0.00	57	39.31	88	60.69	0	83
Lumby	123	0	0.00	36	29.27	87	70.73	0	45
Oliver	210	2	0.95	44	20.95	164	78.10	2	65
Osoyoos	157	1	0.64	39	24.84	117	74.52	1	48
Penticton (Rural)	198	3	1.52	69	34.85	126	63.64	3	102
Penticton (Municipal)	645	4	0.62	147	22.79	494	76.59	5	183
Princeton	390	6	1.54	95	24.36	289	74.10	7	160
Revelstoke	463	3	0.65	112	24.19	348	75.16	3	168
Salmon Arm (Rural)	116	3	2.59	36	31.03	77	66.38	3	52
Salmon Arm (Municipal)	289	3	1.04	60	20.76	226	78.20	3	93
Sicamous	140	2	1.43	35	25.00	103	73.57	2	57
Summerland (Municipal)	151	0	0.00	42	27.81	109	72.19	0	68
Vernon (Rural)	394	6	1.52	136	34.52	252	63.96	8	222
Vernon (Municipal)	710	2	0.28	172	24.23	536	75.49	2	231
Unknown	4	0	0.00	1	25.00	3	75.00	0	1
TOTAL	6,850	59	0.86	1,853	27.05	4,938	72.09	67	2,873

1984 Traffic Accidents by Police Jurisdictions - Kamloops Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Alexis Creek	86	2	2.33	17	19.77	67	77.91	3	39
Anahim Lake	37	0	0.00	14	37.84	23	62.16	0	27
Ashcroft	169	5	2.96	33	19.53	131	77.51	7	60
Barriere	122	1	0.82	34	27.87	87	71.31	1	50
Blue River	38	1	2.63	6	15.79	31	81.58	1	15
Chase	195	2	1.03	57	29.23	136	69.74	4	86
Clearwater	177	4	2.26	36	20.34	137	77.40	5	55
Clinton	138	0	0.00	42	30.43	96	69.57	0	71
Kamloops (Rural)	236	4	1.69	89	37.71	143	60.59	8	130
Kamloops (Municipal)	1,869	10	0.54	448	23.97	1,411	75.49	11	639
Lillooet	162	3	1.85	45	27.78	114	70.37	3	69
Logan Lake	56	0	0.00	12	21.43	44	78.57	0	21
Lytton	118	2	1.69	36	30.51	80	67.80	3	59
Merritt (Rural)	160	3	1.87	54	33.75	103	64.37	5	96
Merritt (Municipal)	165	2	1.21	27	16.36	136	82.42	2	38
100 Mile House	408	4	0.98	105	25.74	299	73.28	5	178
Spences Bridge	65	4	6.15	27	41.54	34	52.31	5	37
Valemount	116	0	0.00	39	33.62	77	66.38	0	62
Williams Lake (Rural)	403	10	2.48	135	33.50	258	64.02	12	218
Williams Lake (Municipal)	603	3	0.50	93	15.42	507	84.08	3	125
Unknown	1	0	0.00	1	100.00	0	0.00	0	1
TOTAL	5,324	60	1.13	1,350	25.35	3,914	73.52	78	2,076

1984 Traffic Accidents by Police Jurisdictions - Nelson Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Castlegar (Rural)	152	1	0.66	47	30.92	104	68.42	2	64
Castlegar (Municipal)	178	0	0.00	42	23.60	136	76.40	0	56
Cranbrook (Rural)	271	6	2.21	61	22.51	204	75.28	10	119
Cranbrook (Municipal)	431	1	0.23	62	14.39	3,689	85.38	1	80
Crescent Valley	103	1	0.97	33	32.04	69	66.99	1	57
Creston	359	2	0.56	94	26.18	263	73.26	2	130
Elkford	28	0	0.00	10	35.71	18	64.29	0	10
Fernie	296	3	1.01	59	19.93	234	79.05	3	92
Field	46	0	0.00	10	21.74	36	78.26	0	17
Fruitvale	92	1	1.09	22	23.91	69	75.00	1	35
Golden	405	5	1.23	92	22.72	308	76.05	5	150
Grand Forks	259	0	0.00	59	22.78	200	77.22	0	79
Invermere	242	0	0.00	47	19.42	195	80.58	0	66
Kaslo	60	1	1.67	14	22.33	45	75.00	1	17
Kimberley (Rural)	121	2	1.65	27	22.31	92	76.03	3	39
Kimberley (Municipal)	107	0	0.00	21	19.63	86	80.37	0	27
Midway	89	1	1.12	15	16.85	73	82.02	1	24
Nakusp	129	1	0.78	22	17.05	106	82.17	1	31
Nelson	164	1	0.61	34	20.73	129	78.66	1	49
New Denver	42	0	0.00	9	21.43	33	78.57	0	12
Radium	153	1	0.65	35	22.88	117	76.47	1	50
Rossland	88	0	0.00	19	21.59	69	78.41	0	26
Salmo	104	3	2.88	21	20.19	80	76.92	3	28
Sparwood	220	1	0.45	40	18.18	179	81.36	1	57
Trail (Rural)	96	0	0.00	19	19.79	77	80.21	0	27
Trail (Municipal)	282	1	0.35	42	14.89	239	84.75	1	59
TOTAL	4,517	32	0.71	956	21.16	3,529	78.13	38	1,401

1984 Traffic Accidents by Police Jurisdictions - Prince George Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Burns Lake	203	2	0.99	57	28.08	144	70.94	5	88
Chetwynd	250	1	0.40	68	27.20	181	72.40	1	95
Dawson Creek (Rural)	199	3	1.51	53	26.63	143	71.86	4	91
Dawson Creek (Municipal)	395	1	0.25	46	11.65	34	88.10	1	61
Fort Nelson	275	2	0.73	65	23.64	208	75.64	4	95
Fort St. James	106	0	0.00	29	27.36	77	72.64	0	55
Fort St. John (Rural)	303	6	1.98	64	21.12	233	76.90	7	98
Fort St. John (Municipal)	379	0	0.00	58	15.30	321	84.70	0	73
Fraser Lake	85	3	3.53	25	29.41	57	67.06	4	40
Hudson Hope	35	0	0.00	9	25.71	26	74.29	0	12
Mackenzie (Rural)	87	1	1.15	29	33.33	57	65.52	2	54
Mackenzie (Municipal)	89	0	0.00	14	15.73	75	84.27	0	21
McBride	114	2	1.75	30	26.32	82	71.93	3	44
Prince George (Rural)	445	5	1.12	162	36.40	278	62.47	5	257
Prince George (Municipal)	2,360	11	0.47	405	17.16	1,944	82.37	11	582
Quesnel (Rural)	328	4	1.22	110	33.54	214	65.24	10	160
Quesnel (Municipal)	417	2	0.48	88	21.10	327	78.42	2	116
Tumbler Ridge	137	1	0.73	37	27.01	99	72.26	1	55
Vanderhoof	216	2	0.93	61	28.24	153	70.83	2	97
Wells	27	1	3.70	10	37.04	16	59.26	1	14
Watson Lake/Teslin	19	0	0.00	5	26.32	14	73.68	0	8
Unknown	5	0	0.00	1	20.00	4	80.00	0	2
TOTAL	6,474	47	0.73	1,426	22.03	5,001	77.24	63	2,118

1984 Traffic Accidents by Police Jurisdictions - Prince Rupert Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Atlin	17	0	0.00	5	29.41	12	70.59	0	9
Bella Bella	1	0	0.00	1	100.00	0	0.00	0	1
Bella Coola	45	0	0.00	13	28.89	32	71.11	0	16
Cassiar	70	0	0.00	23	32.86	47	67.14	0	38
Dease Lake/Telegraph	57	0	0.00	21	36.84	36	63.16	0	34
Granisle	16	1	6.25	5	31.25	10	62.50	2	6
Hazelton	185	4	2.16	67	36.22	114	61.62	5	104
Houston	196	1	0.51	40	20.41	155	79.08	1	56
Kitimat (Rural)	35	1	2.86	8	22.86	26	74.29	1	14
Kitimat (Municipal)	186	0	0.00	40	21.51	146	78.49	0	55
Massett	80	1	1.25	24	30.00	55	68.75	1	31
New Aiyansh	29	0	0.00	7	24.14	22	75.86	0	9
Prince Rupert (Rural)	85	2	2.35	30	35.29	53	62.35	2	52
Prince Rupert (Municipal)	433	1	0.23	81	18.71	351	81.06	1	95
Queen Charlotte City	93	1	1.08	19	20.43	73	78.49	1	25
Smithers	310	4	1.29	63	20.32	243	78.39	5	95
Stewart	59	2	3.39	22	37.29	35	59.32	2	29
Terrace (Rural)	217	2	0.92	75	34.56	140	64.52	4	126
Terrace (Municipal)	285	0	0.00	57	20.00	228	80.00	0	76
Unknown	4	0	0.00	2	50.00	2	50.00	0	5
TOTAL	2,403	20	0.83	603	25.09	1,780	74.08	25	876

1984 Traffic Accidents by Police Jurisdictions - Lower Mainland District RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Abbotsford (Rural)	20	0	0.00	4	20.00	16	80.00	0	4
Abbotsford (Municipal)	515	1	0.19	111	21.55	403	78.25	1	154
Agassiz	272	9	3.31	71	26.10	192	70.59	10	120
Boston Bar	155	3	1.94	44	28.39	108	69.68	3	67
Bowen Island (Marine)	25	0	0.00	4	16.00	21	84.00	0	4
Burnaby	5,883	9	0.15	1,384	23.53	4,490	76.32	9	1,849
Chilliwack (Rural)	114	1	0.88	36	31.58	77	67.54	1	62
Chilliwack (Municipal)	1,168	1	0.09	293	25.09	874	74.83	1	388
Coquitlam (Rural)	291	3	1.03	86	29.55	202	69.42	3	124
Coquitlam (Municipal)	1,623	7	0.43	413	25.45	1,203	74.12	7	589
Maple Ridge (Rural)	198	3	1.52	43	21.72	152	76.77	4	63
Maple Ridge (Municipal)	983	5	0.51	207	21.06	771	78.43	6	293
Gibsons	226	1	0.44	65	28.76	160	70.80	1	86
Hope	539	8	1.48	139	25.79	392	72.73	10	215
Langley (City)	676	0	0.00	179	26.48	497	73.52	0	233
Langley (Township)	1,101	5	0.45	351	31.88	745	67.67	5	544
Mission (Rural)	83	0	0.00	24	28.92	59	71.08	0	26
Mission (Municipal)	508	4	0.79	111	21.85	393	77.36	4	149
North Vancouver (City)	1,279	1	0.08	262	20.48	1,016	79.44	1	339
North Vancouver (District)	1,378	1	0.07	274	19.88	1,103	80.04	2	341
Pemberton	94	1	1.06	29	30.85	64	68.09	1	45
Port Coquitlam	717	3	0.42	192	26.78	522	72.80	3	267
Richmond	3,171	2	0.06	801	25.26	2,368	74.68	2	1,067
Sechelt	212	0	0.00	61	28.77	151	71.23	0	80
Squamish (Rural)	164	1	0.61	57	34.76	106	64.63	2	88
Squamish (Municipal)	230	6	2.61	55	23.91	169	73.48	8	91
Surrey (Rural)	4	0	0.00	0	0.00	4	100.00	0	0
Surrey (Municipal)	5,145	22	0.43	1,585	30.81	3,538	68.77	26	2,360
Unit A Freeway/Route 99	425	5	1.18	129	30.35	291	68.47	6	216
Unit B Freeway/Route 1	1,130	6	0.53	412	36.46	712	63.01	6	641
Unit C Freeway/Chilliwack	227	5	2.20	78	34.36	144	63.443	8	159
University	343	1	0.29	68	19.83	274	79.88	1	87
White Rock	366	0	0.00	64	17.49	302	82.51	0	96
Whistler	191	0	0.00	26	13.61	165	86.39	0	52
Unknown	5	0	0.00	3	0.60	2	0.40	0	4
TOTAL	29,461	114	0.39	7,661	26.00	21,686	73.61	131	10,903

1984 Traffic Accidents by Police Jurisdictions - Victoria Subdivision RCMP

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Chemainus	147	2	1.36	35	23.81	11	74.83	3	51
Colwood	842	2	0.24	281	33.37	559	66.39	2	388
Duncan	422	2	0.47	131	31.04	289	68.48	2	187
Duncan (North Cowichan)	297	3	1.01	91	30.64	203	68.35	3	133
Gabriola Island	53	0	0.00	16	30.19	37	69.81	0	24
Ganges	137	2	1.46	45	32.85	90	65.69	2	60
Ladysmith	177	3	1.69	57	32.20	117	66.10	5	87
Lake Cowichan	116	2	1.72	34	29.31	80	68.97	3	47
Nanaimo (Rural)	174	2	1.15	53	30.46	119	68.39	2	76
Nanaimo (Municipal)	1,541	5	0.32	425	27.58	1,111	72.10	5	594
Pender Island	24	0	0.00	6	25.00	18	75.00	0	8
Shawnigan Lake	222	1	0.45	71	31.98	150	67.57	1	87
Sidney (Rural)	22	0	0.00	8	36.36	14	63.64	0	12
Sidney (Municipal)	307	2	0.65	77	25.08	228	74.27	2	105
Sooke	205	1	0.49	86	41.95	118	57.56	1	116
TOTAL	4,686	27	0.58	1,416	30.22	3,243	69.20	31	1,975

1984 Traffic Accidents by Police Jurisdictions - Municipal Forces

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
Vancouver City	23,052	27	0.12	3,374	14.64	19,651	85.25	28	4,381
Victoria City	1,988	6	0.30	748	37.63	1,234	62.07	6	921
Saanich	1,650	10	0.61	472	28.61	1,168	70.79	10	639
Central Saanich	193	3	1.55	58	30.05	132	68.39	3	85
Esquimalt	349	0	0.00	108	30.95	241	69.05	0	138
Oak Bay	209	0	0.00	69	33.01	140	66.99	0	87
Delta	1,692	4	0.24	401	23.70	1,287	76.06	4	561
Matsqui	1,333	3	0.23	394	29.56	936	70.22	3	615
New Westminster	2,059	6	0.29	476	23.12	1,577	76.59	6	653
West Vancouver	1,201	4	0.33	274	22.81	923	76.85	4	369
Nelson	234	0	0.00	37	15.81	197	84.19	0	41
Port Moody	406	0	0.00	120	29.56	286	70.44	0	163
TOTAL	34,366	63	0.18	6,531	19.01	27,772	80.81	64	8,653

1984 Traffic Accidents by Police Jurisdictions - Other Police Forces

Police Jurisdiction Location	Total Accidents	Fatal Accidents		Injury Accidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/ Location	Number	% of Total/ Location	Number	% of Total/ Location		
National Harbours Board	21	0	0.00	6	28.57	15	71.43	0	7
Military Police	59	0	0.00	9	15.25	50	84.75	0	12
TOTAL	80	0	0.00	15	18.75	65	81.25	0	19

DRIVER IMPROVEMENT PROGRAM

The Driver Licence Division continued the screening of unsatisfactory driving records, to ensure that drivers whose actions become hazardous as the result of alcohol involvement and other dangerous driving practices are either corrected or removed from the highways.

SUMMARY OF ACTION TAKEN UNDER DRIVER IMPROVEMENT PROGRAM

ACTION TAKEN:	
Driving Records Reviewed	66,186
Warning Letters	51,800
Probations	23,461
Interviews Conducted in Victoria	859
Prohibitions from Driving	48,149
Cancelled Driver's Licences	20,901
Reason for Prohibitions	
Section 84 (Unsatisfied Judgment)	24
Section 85 (Prohibition by Superintendent: Fitness and Ability)	237
Section 86 (Prohibition by Superintendent: Driving Record Review)	9,198
Section 90 (Court Prohibition)	891
Section 92 (Automatic Prohibition)	18,101
Section 92/1/3 (3 Year Prohibition for Failing to Stop for a Peace Officer)	173
Section 214 (24 Hour Prohibition)	19,525
TOTAL	48,149

OFFENCES REPORTED TO SUPERINTENDENT:	
Alcohol Related Offences	17,249
Total of All Criminal Code and Similar Offences Reported	17,998
Total of All Offences Reported (Criminal Code, MV Act, MV Regulations)	692,544
Juvenile Offences Reported	7,382
Criminal Code Offences Committed by B.C. Drivers Outside B.C.	389
Similar Criminal Code Offences Committed by B.C. Drivers in U.S.A.	202
Motor Vehicle Act Offences Committed by Drivers Residing in B.C. and Licenced in Another Jurisdiction	4,627
Criminal Code Offences Committed by Drivers Residing in B.C. and Licenced in Another Jurisdiction	725

ANALYSIS OF WARNING LETTERS, PROBATIONS AND PROHIBITIONS (SUSPENSIONS) BY AGE GROUP FOR 1984, ALL DRIVERS

Age	Section 83 MVA	Section 84 MVA	Section 85 MVA	Section 86 MVA	Section 90 MVA	Section 92 MVA	Section 92/1/3 MVA	Section 214	Total	Warning Letters	Probation
16	0	0	0	40	19	46	5	122	232	0	464
17	0	0	0	210	27	203	11	409	860	13	1,904
18	0	0	4	462	33	422	17	708	1,646	1,569	1,717
19	0	1	5	942	42	790	13	1,232	3,025	2,721	2,188
20	0	0	3	1,075	38	950	16	1,263	3,345	2,871	2,114
21-25	1	5	13	3,119	207	4,410	61	5,038	12,854	12,512	6,285
26-30	2	7	27	1,307	142	3,202	22	3,351	8,060	9,430	3,451
31-35	2	7	9	732	108	2,346	10	2,287	5,501	7,208	2,105
36-40	2	3	10	472	66	1,789	3	1,711	4,056	5,615	1,440
41-45	1	1	16	316	54	1,253	1	1,165	2,807	3,676	761
46-50	2	0	22	188	44	916	3	811	1,986	2,340	425
51-55	2	0	15	148	35	745	1	589	1,535	1,661	282
56-60	4	0	16	97	28	532	3	414	1,094	1,086	166
61-65	0	0	15	52	18	279	1	237	602	587	92
66-70	4	0	12	27	12	141	0	108	304	304	39
71-75	0	0	13	8	8	66	1	58	154	140	18
76-80	0	0	16	1	1	3	0	17	38	52	9
81-85	0	0	19	0	0	1	0	3	23	14	1
86-90	0	0	1	0	1	0	0	0	2	1	0
91-95	0	0	1	0	0	0	0	0	1	0	0
96 & over	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	2	8	7	5	2	24	0	0
TOTAL	20	24	217	9,198	891	18,101	173	19,525	48,149	51,800	23,461

DRIVER TRAINING SCHOOL STATISTICS - 1984

ISSUANCES

	Schools	Operators	Instructors
Licences Issued	102	97	315
Terminations	3	3	39
Suspensions	0	0	0
Reinstatements	0	0	0
Total Active Licences as of December 31, 1984	99	94	276

INSTRUCTOR EXAMINATIONS CONDUCTED

Written Examinations	
Passed	59
Failed	14
TOTAL	73
Practical Examinations	
Passed	59
Failed	7
TOTAL	66

TEMPORARY PERMITS

Original Permits Issued	49
Temporary Instructors as of December 31, 1984	11

$500 SECURITY BONDING

Bonded by Surety	53 x $500 =	$26,500
Security on Deposit (Bonds)	15 x $500 =	$7,500
Security on Deposit (Bonds)	1 x $1000 =	$1,000
Security on Deposit (Term Deposit)	9 x $500 =	$4,500
Security on Deposit (Term Deposit)	2 x $1000 =	$2,000
Security on Deposit (Cash)	22 x $500 =	$11,000
TOTAL SURETY & SECURITY VALUE		$52,500

REVENUE

School Licences	102 x $25 =	$2,550
Operator's Licences	97 x $10 =	$970
Instructor's Licences	315 x $5 =	$1,575
TOTAL		$5,095

Inspections Conducted

Driver Training School Inspections are carried out throughout the year by Regional Co-ordinators of the Motor Vehicle Department.

THE CERTIFICATION PROGRAM

The Driver Certification Program is offered to persons, schools, firms and businesses involved in the transportation and trucking industry. The privilege of certifying drivers is granted to those companies who meet the standards of the program as set out by the Superintendent of Motor Vehicles.

There have been 166 recognized authorities involved in this program since its inception in 1971. Twenty-two of these companies have withdrawn but 144 are still active, including 3 new companies that were accepted into the program in 1984.

Liaison visits to recognized authorities were conducted by Regional Co-ordinators of the Motor Vehicle Department.

INDUSTRIAL ROADS

The Motor Vehicle Department assumed the responsibility of administering the Highway (Industrial) Act in July, 1980. All drivers of unlicenced vehicles on private Industrial Roads are now licenced by the Superintendent of Motor Vehicles.

During 1984, the Superintendent issued the following Air Tickets and permits:

Original Air Tickets	75
Temporary (60 day) Permits	12

Duplicate and renewal applications are now processed through the driver licencing system.

As of December 31, 1984 there were 6,735 licenced off highway drivers.

REPORT OF THE DIRECTOR OF STANDARDS AND COMPLIANCE

P. Toogood, P.Eng.

The Director of Standards and Compliance directs the activities of the Vehicle Inspection Division, the Commercial Transport Division and the Standards Development Program.

VEHICLE INSPECTION DIVISION

The Vehicle Inspection Division carries out school bus inspections throughout the province as well as conducting random roadside inspection of commercial vehicles. There are presently 22 area vehicle inspectors stationed throughout the Province.

From January 1 to December 31, 184, there were 62 permits issued for flashing amber lamps, 25 were for blanket permits and 37 for singular permits.

There were no Theft Alarm permits issued.

A major review was made on the policy for issuing flashing lamp permits to Volunteer Fire Departments in 1984. There were eight permits issued for flashing red lamp and siren and one permit for flashing red lamp only.

SCHOOL BUS INSPECTION PROGRAM

Control over the use and operation of school buses engaged in the transportation of students to and from schools in the Province is the responsibility of the Superintendent of Motor Vehicles. The control extends to the setting of minimum standards for the construction and maintenance of school buses and provides for their semi-annual inspection. These inspections are carried out on behalf of the Superintendent by Area Vehicle Inspectors of the Department.

As a precondition for receiving a school bus permit, all school buses must be inspected semi-annually to ensure that standards of construction, safety, health, and repair are being met. These inspections are carried out at Chilliwack, Cranbrook, Courtenay, Dawson Creek, Kamloops, Kelowna, Prince George, Smithers and Williams Lake. An additional 12 inspectors have been hired to inspect buses in Victoria, Greater Vancouver, Nanaimo, Penticton and Nelson areas.

Division 11 of the Motor Vehicle Regulations requires that school bus permits be obtained by every vehicle operating under contract to the Board of School Trustees for the purpose of transporting children to or from school. During 1984, amendments to Division 11 (school bus regulations) and the minimum standards for construction of school buses were proposed and distributed to industry for comment.

During 1984, the number of renewal permits issued for vehicles to be used as school buses was 1,960 and 489 permits were issued for new vehicles for a total of 2,449. This is a 27.3% increase over the same period last year. Of the permits issued, 16 were cancelled as the result of sale, 29 were cancelled and removed from the road because of poor mechanical condition and two were scrapped, one commercial and the other regular.

There were 148 accidents, two deaths, 70 minor injuries and 301 school buses involved in minor accidents.

PROVINCIAL ROADSIDE CHECKS

In cooperation with the R.C.M. Police and other enforcement agencies, mechanical examinations were made during 1984 of randomly selected commercial vehicles to determine their conformance with standards of safety, maintenance and repair (province-wide).

Ten major roadchecks resulted in 8,543 commercial vehicles being checked, 1,457 required repairs and 663 were removed for critical mechanical defects. Also, during a number of mini (random) roadside checks carried out from August to December, there were 957 B.C. based vehicles inspected of which 532 required repairs and 174 were removed from service because of critical mechanical defects. In addition there were 239 out of province vehicles checked with 118 requiring repairs and 53 removed from service due to defects.

With the extra-provincial agreements and the cooperation of several provinces and many American states in agreeing on the criteria for mechanically acceptable vehicles, roadside inspection results are accepted in other jurisdictions, resulting in less down time for the commercial vehicle operator, in meeting our minimum standards.

ACCIDENT INVESTIGATION AND TESTIMONY

In a cooperate program with law enforcement agencies the Vehicle Inspection Division conducted the mechanical examination of 147 vehicles which were involved in fatal or serious accidents to determine if standards of safety and repair were being met. These examinations provided extensive support to police agencies, during formal judicial proceedings, where expert testimony was frequently required for the evaluation of technical evidence.

Of the 147 vehicles examined, 131 were found to have major defects such as brakes, steering or tires. Several of the vehicle operators were subsequently charged.

Motor vehicle inspectors also appeared in court as expert witnesses for 232 hours during 1984 in order to give testimony on their findings of the vehicle's condition.

COMMERCIAL TRANSPORT DIVISION

This Division operates 40 permanent weigh scales throughout the Province, located at strategic points along the main highway system. Thirty-five of the scales are manned on a regular basis.

The Division also has 19 portable patrols to monitor commercial vehicles in areas where there are no permanent weigh scales. These patrols also monitor logging trucks through weight data compiled and recorded by Ministry of Forests personnel. During 1984 approximately 426,700 loads were monitored through this procedure.

In addition to monitoring and checking commercial vehicles, weighmasters issue various types of permits, such as temporary operation, non-resident, motive-fuel use, highway crossing, restricted route, overweight and oversize. They also issue I.C.B.C. policies in conjunction with many of these permits.

Weighmasters are also required to enforce the various statutes pertaining to the operation of commercial vehicles and are empowered to lay charges under the Commercial Transport Act, Motor Carrier Act, Motor Vehicle Act, Highway Act, and the Motive Fuel Use Tax Act and regulations made pursuant to those Acts. In addition to weighing commercial vehicles, weighmasters check for such items as load security, licences, operating authority, drivers licences, dimensions, insurance, mechanical condition and many other items for compliance.

In January, 1984, the new Sparwood weigh scale began operation as a replacement for the Fernie weigh scale. This new facility, located approximately three kilometres inside the British Columbia/Alberta border on Highway 3 enables the Division to monitor all incoming and outgoing commercial traffic operating over this route. Relocation resulted in an increase of 113% in enforcement, 56% in revenue and 20% in vehicles monitored.

Construction of the new Vanderhoof weigh scale building at the junction of Highways 16 and 27 began in 1984. Weather prevented completion of the concrete work and it was expected the facility would be operational by May, 1985.

At the Kamloops North weigh scale a larger scale was installed and substantial improvement in the yard area was completed by the Highways Department.

To improve highway safety the Highways Department expanded the parking area at the Port Mann Eastbound weigh scale and added a third lane on Highway 1 through to 176th Street to accommodate southbound commercial vehicles.

A new portable patrol operation began at Invermere/Radium. The area of operation is between Donald Station and Canal Flats with primary responsibilities being the monitoring of logging trucks and vehicles operating into and through the Province via Highway 93 through Kootenay National Park.

Statistics for the Division for the year 1984 are as follows:

Commercial vehicles checked (excluding logging trucks)	2,162,398
Logging trucks checked through Forestry data	426,701
Prosecutions entered	23,161
Violation notices (warnings) issued	7,088

PERMITS ISSUED

Term, short term and single trip (oversize and/or overweight)	53,446
Non-Resident	37,772
Temporary Operation	29,069
Motive Fuel	17,792
Restricted Route	5,111
Highway Crossing	1,182
Special Temporary	337
C.A.V.R.	487
TOTAL PERMITS ISSUED	145,196

REVENUE COLLECTED, 1984 - (Approximate)

Oversize and Overweight Permits	$1,654,931
Non-Resident Permits	1,550,393
Temporary Operation Permits	182,512
Restricted Route Permits	191,347
Highway Crossing Permits	28,003
Special Temporary Permits	1,139
Motive Fuel Permits	532,282
I.C.B.C. Insurance	516,788
C.A.V.R.	4,169
TOTAL REVENUE	$4,661,564

STANDARDS DEVELOPMENT PROGRAM

During 1984, the Province commenced work on alternative forms of vehicle inspection and the standards to which inspections are carried out. The standards of inspection are intended for implementation in a private sector program, with attention being paid to harmonization of requirements with other provinces as a way of moving toward reciprocal acceptance of inspections carried out in other jurisdictions.

The Province recognized that towing dollies, used for towing small passenger cars behind motor homes, could be used on the highway with an acceptable level of safety, provided that certain precautions were observed. Formerly, the use of any combination of three vehicles was not permitted, except in the case of commercial vehicles having a GVW in excess of 11000 kg.

This recognition is based upon a research program that had been undertaken by the Province, designed to investigate the factors that influence the behaviour of towing dollies in a variety of conditions: load, speed, etc. The testing was carried out under the direction of a vehicle consultant, and was jointly funded by both the Motor Vehicle Department and by Transport Canada.

This research was novel in the field of light trailer studies for its use of a third vehicle as an aid to the understanding of the dynamics of such a vehicle combination, and it has contributed to the uniform recognition given such dollies by the Canadian jurisdictions.

The requirements for hydraulic brake fluid were amended so that silicone brake fluid meeting the specifications for Grade DOT 5 would henceforth be legal for sale in the Province.

REPORT OF THE DIRECTOR OF INFORMATION SYSTEMS

R.C. Servis

The Director of Information Systems directs the planning, development and implementation of automated systems supporting all divisions. An Information Systems Branch (ISB) of the British Columbia Systems Corporation (BCSC) was set up to serve the Motor Vehicle Department and other transportation departments early in 1984. Pending formal establishment of such a branch in the Ministry, staffing level is presently nine BCSC employees, one Ministry employee and five contracted employees. Additional requirements are staffed by either contracted or BCSC employees on a project by project basis. University students, usually hired through CO-OP programs, are also utilized to provide further support to the branch when needed. During the year, negotiations with the Ministry of Finance were completed to transfer data entry responsibility to the Motor Vehicle Department, adding approximately seven staff members receiving technical direction through the ISB.

The largest undertaking during the year was development and implementation of driver licencing data capture in the 35 motor licence offices. This is a major phase in the long term project, Phased Enhancements to Licence Turnaround (PELT). Reductions have been made in both the time taken and the total man-hours required in all phases of the processing of motor vehicle licence applicants. Subsequent phases will address other forms of issuing in Motor Vehicle Department field offices such as permits, electronic cash sheet transmittal, etc.

In other areas, efficiencies have been realized through automation in prorate licencing, weigh scale billing and commercial transport administration. An automated vehicle inspection system (AVIS) has been developed for administering the inspection of school buses. It is being expanded to also support the new commercial vehicle inspection program.

A significant amount of work has been completed on the traffic accident system. Municipal and police packages are available to produce statistics from the system in a much shorter time than previously available. The data is now stored in such a manner that further enquiries can be answered quickly and much more easily than in the past.

Many more projects are being planned at present. They include automation of the revenue records area, access by weigh scales to driver, vehicle and motor carrier data, electronic mail for the Transportation Division of the Ministry and development of a new personalized plate system.

As an Information Systems Branch had never existed in the Ministry previously, many procedures and responsibilities had to be developed throughout the year. Filing systems, accounting practices, methods for users to request work from the branch, and general office practices had to be established. Staff are to be commended for the work they accomplished in making the Information Systems Branch an integral part of the Ministry.

REPORT OF THE DIRECTOR OF ADMINISTRATION AND SAFETY

J.F. Phillips

The Director of Administration and Safety is responsible for the general administrative functions of the Superintendent of Motor Vehicles' office, to ensure uniform and consistent use of common administrative procedures and the continuation of the Department's Transportation of Dangerous Goods Program.

Road User Safety Programs are directed and coordinated through the Administration and Safety Branch. The Division is responsible for the distribution of road safety literature disbursement such as pamphlets, bulletins, films, etc. to the general public and interested organizations. In 1984, nearly 800,000 brochures and pamphlets promoting road safety were distributed. The continued support of Safety Councils has resulted in infant restraint loaner programs being set up and operated in the interior of the province.

The year 1984 ended with 525 fatalities recorded; the lowest number of fatalities over the past four years. The cooperation and coordination of Safety Councils, law enforcement officials, specifically interested parties and the positive response of the public has contributed substantially to the reduction in fatalities. The number of accidents remained constant showing a 1% increase over 1983.

In 1984, the first Motor Vehicle Statistical Analysis was produced. This book provides a clean, clear and composite record of motor vehicle accidents in British Columbia. The report was favourably received with many requests for additional copies.

During 1984, the Road Safety Division provided a 30 minute program on child restraints to several communities throughout the province.

Through the use of the Motor Vehicle Department's in-house mail system, driver licences - renewals and duplicates - the Division can reach a high proportion of all licenced drivers in British Columbia.

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